ENERGY EFFICIENCY COMMITTEE

PUBLIC BENEFITS PROGRAM WORKSHOP

BEFORE THE

CALIFORNIA ENERGY RESOURCES CONSERVATION

AND DEVELOPMENT COMMISSION

AUDITORIUM

CALIFORNIA ENERGY COMMISSION

1516 NINTH STREET

SACRAMENTO, CALIFORNIA

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PETERS SHORTHAND REPORTING CORPORATION (916) 362-2345

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COMMITTEE MEMBERS PRESENT

Robert A. Laurie, Commissioner, Presiding Member

Robert Pernell, Commissioner, Associate Member

John Wilson, Commissioner Advisor

Laurie ten Hope, Commissioner Advisor

STAFF PRESENT

John Sugar, Program Manager

Scott Matthews, Deputy Director

Dave Abelson

Kae Lewis

Mike Sloss

Mike Messenger

Gary Cullen

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1	PROCEEDINGS
2	PRESIDING MEMBER LAURIE: Welcome. If
3	you could all take your seats, please.
4	Good morning. My name is Robert Laurie,
5	Commissioner at the Energy Commission, Presiding
6	Member of the Efficiency Committee, which is
7	administering the preparation of the Transition
8	and Operations Report mandated pursuant to 1105.
9	To my left is Commissioner Robert
10	Pernell, my associate on the Committee.
11	COMMISSIONER PERNELL: Good morning.
12	PRESIDING MEMBER LAURIE: To
13	Commissioner Pernell's left is Commissioner
14	Pernell's Advisor, Laurie ten Hope. To my right
15	is my Senior Advisor, John Wilson.
16	In a moment well, let me do it at
17	this time. The Program Manager for the
18	preparation of the report is Mr. John Sugar. It
19	will be Mr. Sugar's responsibility to coordinate
20	the efforts of his team, and for continued
21	introductory purposes, at this time I'd like to
22	have Mr. Sugar introduce his associates on the
23	team that's responsible for the preparation of
24	that report.
25	PROGRAM MANAGER SUGAR: Thank you.

- 1 Commissioner.
- 2 If I could introduce from the far left,
- 3 we have David Abelson, who is the staff attorney
- 4 assisting us on the project. Gary Cullen, next to
- 5 Dave, is responsible for the work -- should we get
- all the microphones set up -- we're having some
- 7 microphone issues, I'll get to that in just a
- 8 moment or two. Thank you.
- 9 Gary is responsible for the work that
- 10 we're doing in estimating the potential for future
- 11 energy efficiency.
- Next to Gary is Scott Matthews, who is
- Division Chief for Efficiency, my supervisor.
- 14 Laurie ten Hope, Commissioner Pernell,
- 15 Commissioner Laurie, John Wilson, Mike Sloss,
- 16 who's responsible for the team working on the
- 17 administrative structure for future efficiency
- 18 programs, and Kae Lewis, who is working with the
- 19 team, heading up the team, looking at issues of
- 20 program characteristics and design for market
- 21 transformation.
- 22 If I could very briefly go through the
- 23 direction which we have received from the
- Legislature in AB 1105. This is the first of a
- 25 series of Committee workshops on the Commission's

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1
        Public Energy Efficiency Public Goods Charge
2
        Report.
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3	In June, the Legislature approved, the
4	Governor signed AB 1105, and that directs the
5	Commission to complete two reports. The first is
6	a Transition Plan Report on the Transfer of Energy
7	Efficiency Programs from the Public Utilities
8	Commission to the Energy Commission, by the end of
9	2001. The report is to consider a number of
10	aspects of that, including issues related to
11	oversight responsibility; issues associated with
12	the transfer of administration from Utilities to a
13	new administrative structure; coordination with
14	other Public Goods Charge programs; ensuring that
15	current programs apply market transformation
16	principles and result in sustainable improvements
17	in efficiency markets; and the resources necessary
18	to implement a transition plan.
19	The second report which the Legislature

directs us to prepare is an Operational Plan Report, to recommend and efficient and effective post-transition administrative structure for efficiency programs. And this report is to consider application of market transformation 24 25 principles for cost effective sustainable

20

21

22

improvements; include assessment of energy markets

- 2 untapped opportunities for cost effective savings;
- programs that result in sustainable improvements 3
- 4 in the information environment, market rules and
- 5 structure to help private businesses innovate and
- 6 help consumers make more intelligent energy
- 7 choices.

- 8 The report is to include consideration
- 9 of the appropriate role of other entities, public
- and private, including -- in energy efficiency 10
- 11 services, including designating a public benefit
- 12 non-profit corporation as the program
- 13 administrator. We need to consider whether
- 14 funding eligibility should extend to supporting
- 15 consumers shifting electricity usage in response
- 16 to pricing differences; the appropriate funding
- 17 levels for energy efficiency after 2001;
- 18 minimizing the role of state agencies in providing
- 19 administrative and implementation services; and
- 20 consider programs in existing markets that reduce
- 21 consumer energy bills while stimulating the growth
- 22 of competitive industry, such as standard
- 23 performance program contract programs.
- 24 The Energy Commission is to have these
- 25 reports completed by January 1. In order for the

1 Efficiency Committee, who you see here, and the

- 2 Commission to complete its review of staff's work,
- 3 staff has to complete its work by the end of
- 4 November.
- 5 Today's workshop is the first of what
- 6 will be a series. The goal today is to hear from
- 7 parties regarding issues they believe the
- 8 Commission should address in the reports, and
- 9 considerations that parties believe the Commission
- 10 should take into account.
- 11 The agenda is quite broad, and that's
- 12 purposeful, to ensure that we hear all relevant
- 13 comments. We do ask that comments, where
- 14 possible, be brief to ensure that everyone has an
- opportunity to speak today. We were trying to set
- 16 up some roving microphones, and we may yet succeed
- if the building manager comes and helps us get the
- 18 other sound system going. Given that at the
- moment we're running into technical difficulties,
- 20 we ask that to make your comments, you please come
- 21 up to the podium. Hopefully we'll have a better
- 22 system in place shortly.
- We're happy to receive written comments.
- 24 If you do have written comments, either from the
- 25 discussion here or written comments that you have

1 prepared already, if you could submit them

- 2 electronically that will help us get them onto our
- 3 list server.
- 4 In personal details, there are
- 5 restrooms. If you go outside, in the main hall
- 6 there's a door market restrooms, and stairs, which
- 7 is code for restrooms and stairs.
- 8 (Laughter.)
- 9 PROGRAM MANAGER SUGAR: There also are
- 10 pay phones, and on the second floor there is a
- 11 cafeteria.
- 12 With that -- and Mike Messenger is just
- coming in, he'll also be up here. Mike was
- 14 responsible for the team looking at the need for
- efficiency programs, which is a result of the
- 16 comments the Governor had in his veto message --
- 17 where he didn't veto this effort, by the way --
- and future program magnitude, which is one of the
- issues which we need to address.
- 20 PRESIDING MEMBER LAURIE: Thank you,
- John.
- 22 As Mr. Sugar indicated, there will be
- 23 additional workshops. The intent of this workshop
- is to receive as general or as specific comments
- 25 as you may desire to offer. As time goes on,

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1 there will obviously be something a lot more
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- 2 specific for you to comment to. At this point in
- 3 time, although there may be conceptual bogs and
- 4 conceptual ideas floating around, not only in your
- 5 own organization, certainly our organization as
- 6 well, nothing is close to being put on paper yet.
- 7 Therefore, we have nothing to give you for you to
- 8 respond to because, in fact, that would be
- 9 premature.
- 10 We're interested in your thoughts as to
- 11 both process, if you desire, or specifics in
- 12 regards to any of these chapters, or portions of
- the report that are to be mandated.
- 14 The meeting is being recorded and
- 15 transcribed. If there is a problem with that, we
- will be informed and we will hold you up
- 17 momentarily.
- There is no formal structure. That is,
- if you desire to speak we would ask that you fill
- out blue cards and get them submitted up front.
- 21 If you don't do that, don't worry about it. We'll
- get you anyway. We anticipate no problem in
- 23 hearing everybody's concerns once or twice, it may
- 24 be necessary.
- We would ask that you be reasonable

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1 about the length of your comments. If you're
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- 2 going to submit a paper, don't read your paper
- 3 today, please. Submit your paper. We would ask
- 4 you to be courteous, and hold your comments to a
- 5 relatively limited period of time. If there's a
- 6 problem with that, then we will engage in that
- 7 discussion.
- 8 Towards the end of the meeting we will
- 9 talk a little further about our process. We
- 10 believe process is absolute key to a successful
- 11 outcome. Again, although we may have some of our
- 12 -- our ideas, we do not have solutions. We all
- have solutions, and your input into that process
- is critical.
- 15 Commissioner Pernell, did you have any
- opening comments this morning?
- 17 COMMISSIONER PERNELL: Yes. What I'd
- 18 like to do is welcome everyone. And we have, as
- 19 Commissioner Laurie has said, a mandate from the
- Legislature, AB 1105, to do a report. And we
- intend to do that. We intend to do that with
- 22 everyone's input. And you can't just assume that
- we know what you're thinking, so I would ask that
- 24 regardless of how you consider -- how you consider
- it will be received, just say it. Otherwise, we

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1 won't get it, we won't have it on tape.
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- 2 We will complete the legislative mandate
- 3 in a timely manner, so we just ask, as
- 4 Commissioner Laurie has said, that you be
- 5 courteous of others in your -- in your statements,
- 6 and not take up, you know, two hours to explain
- 7 why you think the sky might fall.
- 8 So with that, again, thank you for being
- 9 here and helping us through this process, and we
- 10 do intend to hear everyone's comments and consider
- 11 them.
- 12 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 13 Pernell.
- 14 Ladies and gentlemen, it is going to be
- very hot in Sacramento today. Hopefully, this
- auditorium will adjust to that, but do not be
- 17 concerned if towards the end of the afternoon you
- 18 feel a desperate need to remove whatever you need
- 19 to remove, and feel free to do that.
- 20 (Laughter.)
- 21 PRESIDING MEMBER LAURIE: Within legal
- boundaries, please.
- 23 Mr. Sugar, did you want to at this point
- have team members offer opening comments, or was
- it your intent to go immediately to the audience

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for public input?
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- 2 PROGRAM MANAGER SUGAR: We were thinking
- 3 of going immediately to the audience for public
- 4 input.
- 5 PRESIDING MEMBER LAURIE: Okay. We do
- 6 have all of the team leads here today. And by
- 7 that, I mean there have been individuals assigned
- 8 that you've been introduced to, that will be
- 9 primarily responsible for certain portions of the
- 10 report.
- 11 We don't have -- we don't have copies of
- 12 1105 here, do we? I'm assuming you're all
- familiar with that, since that legislation is our
- 14 mandate, and I -- I can assure you we will be
- following the letter of that mandate.
- 16 At this point, therefore, let me open
- 17 the matter up for public comment. I will first go
- 18 through the blue cards. After that, I will open
- 19 it up for other individuals.
- 20 Rich Ferguson, please.
- MR. FERGUSON: Good morning,
- 22 Commissioners and staff.
- I just finished these comments a few
- 24 minutes ago. I have not had time to file them
- 25 electronically. I apologize, I'll do that at the

- 1 earliest opportunity.
- 2 I'm here representing the Sierra Club.
- 3 I'm the Energy Chair of Sierra Club in California,
- 4 and we strongly support the move to transfer the
- 5 authority for the public funded energy efficiency
- 6 programs to the Energy Commission, assuming, of
- 7 course, that you take my advice on how they should
- 8 be administered.
- 9 (Laughter.)
- 10 MR. FERGUSON: The first question I hope
- 11 we can dispense with fairly quickly, and that's
- 12 whether these programs should be continued at all.
- I know that was one of the questions.
- 14 There has been a considerable amount of
- work, including some by my office, this year on
- 16 the public value of -- of load reductions. I gave
- 17 a presentation to a workshop at the Public
- 18 Utilities Commission a month or so ago, which I
- 19 know many in the audience have seen. There was
- also an article which appeared this month in the
- 21 Electricity Journal, which has a lot of these
- details. If there's an interest in going into
- this in more detail, perhaps this afternoon, I did
- 24 bring overheads, I can put those graphs. This is
- in Attachment A of the comments.

1	But just very quickly. In today's
2	electricity markets, the higher the demand, the
3	higher the prices, the lower demand, the lower the
4	prices. And, in fact, those lower prices are
5	passed along to everybody buying power in the
6	energy market.
7	And it's possible to arrive at some
8	proxy supply curves. And from those supply
9	curves, one can figure out the value in terms of
10	the reduced prices to everybody in the market of a
11	megawatt hour of load reduction at any hour in
12	which the market is open.
13	We have done that for the first 12
14	months of the market using prices at the
15	California Power Exchange to estimate the public
16	value of load reduction, which are quite striking.
17	The estimate that we made is in excess of \$600,000
18	per baseload megawatt reduction for one year. In
19	other words, an average megawatt year saves
20	everybody else in the market that much money. In
21	kilowatt hour terms, that's about seven and a half
22	cents per kilowatt hour.
0.0	

These estimates were made using
regression analysis on the market data. A few
months ago, the California Power Exchange began

releasing anonymous bid data, so it's possible now to see the individual bids that are coming into the Power Exchange. And from where the market clearing price occurs on those bid curves, it's possible to do this calculation a lot more accurately. Unfortunately, it involves considerably more data and work, but one does arrive at a more reliable figure.

I would strongly suggest that the

Commission, as part of its work, undertake that

analysis. It is being looked at at Stanford and

the University of California, and they could

surely use your help. The number is striking.

There is considerable public value to reducing

load in the system, and therefore these publicly

funded programs should be continued.

There's been a lot of talk about the value of load shifting, and one of the questions that was asked by the Legislature in AB 1105 was whether or not some of this -- these programs should be designed to encourage load shifting.

Our recommendation is not to do so at the present time, for a variety of reasons. One is that the markets are just now in San Diego beginning to see real time prices and price volatility, and it's

1 expected, at least, that consumers will respond to

- 2 those price signals and begin to shift load
- 3 automatically, and that energy service providers
- 4 will -- will pursue that market niche.
- 5 So we feel that it's inappropriate to
- 6 try and subsidize this fledgling market at the
- 7 current time until we have some idea of how the
- 8 markets are going to respond.
- 9 Computationally, there are problems,
- 10 because the load shift doesn't just take load out
- of the system, it takes it here and puts it back
- 12 in another hour. So to figure out the public
- value, you have to not only figure out the value
- of reducing load in one hour but of increasing
- load in the other hour, and net those two things
- 16 out.
- 17 In addition, there are some
- 18 environmental considerations, because, for
- 19 example, if one reduces peak and increases
- 20 baseload, you might be increasing the amount of
- 21 coal-fired production that's coming into the
- 22 system which has perhaps more environmental
- 23 concerns than the peakers that -- that you're
- 24 displacing.
- 25 So those are our comments on the first

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1 question.
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2	The second question has to do with the
3	administration. And all I can say is this is our
4	opportunity, when when the programs are moved,
5	to try and maximize the competitive market to
6	design and implement programs. In the past, there
7	has been a great deal of what I would call
8	micromanagement by program administrators,
9	designs, sizes, they're carved up by utility
10	territories, and so on. And we just feel strongly
11	that if the programs are left to the private
12	sector to design them as cost effectively as they
13	possibly can, we'll get a lot more reduction in
14	load per dollar, which is our goal.
15	So as the staff thinks about this, I
16	have to encourage you to try to minimize the
17	state's role in figuring out what the best things
18	to do are to to get these load reductions, and
19	try to maximize reliance on the private sector,
20	the companies or for profit institutions that are
21	actually going to go out and and change the
22	infrastructure on the demand side to reduce load.
23	The as far as how these things should
24	be administered, we think the proper model is the
25	way the Commission administered the new renewables

program through a competitive auction. Basically
you say we've got so much money, we're going to
buy renewable kilowatts, or in this case load
reduction kilowatt hours, and we want to do that
as cheaply as possible. Make me an offer, and
we'll award the money on a least cost basis, and
work our way out.

We think that worked very well. It's gotten world-wide acclaim. It won't be as easy for load reductions, of course. It's much harder to figure out how much load reduction any particular measure is going to achieve, how lasting those savings are, and a variety of issues like that. However, these have been done by various entities, utilities and others around the country, for years and years. It is not an impossible task.

We suggest, however, that the administration of the resulting contracts that come out of this competitive procurement be handled by a non-profit statewide, state chartered entity similar to the system operator, and/or the California Power Exchange, under the oversight of the Electricity Oversight Board. And depending on what happens in the Legislature in the next year

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or so, this would make especial sense if the
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- 2 oversight board becomes a division of this
- 3 Commission, or a successor entity, whoever that
- 4 is.
- 5 But we think that model has worked well.
- 6 And we suggest that you include that as -- as your
- 7 top administrative scenario in your report.
- 8 There are a bunch of transition issues
- 9 related to the timing of when this new entity
- 10 would have to -- have to begin to staff up and
- design its bylaws, organize its board, and so on,
- 12 just like the ISO and the Cal PX did. This is an
- enormously simpler task, because the reliability
- of the grid does not depend on these programs.
- 15 At any rate, that's a quick summary of
- my comments here. I've tried to be responsive
- 17 both to your questions and to the issues raised in
- AB 1105. Anyway, I'm happy to answer any
- 19 questions you might have, and we look forward to
- 20 working in this process for the next several
- 21 months.
- 22 PRESIDING MEMBER LAURIE: Thank you, Mr.
- Ferguson.
- 24 Any questions of Mr. Ferguson at this
- 25 point?

1 Thank you, Rich.

- 2 Mr. Matteson. Gary.
- 3 MR. CULLEN: Commissioner, I'm seeking
- 4 some clarification. Would you like us to hold our
- 5 questions until the end of the entire public
- 6 process, or ask questions --
- 7 PRESIDING MEMBER LAURIE: No. If you
- 8 have questions of a specific speaker, then I would
- 9 encourage you to ask them while they're at the
- 10 podium.
- 11 Did you have a question of Mr. Ferguson?
- MR. CULLEN: I do.
- PRESIDING MEMBER LAURIE: I'm sorry.
- Mr. Ferguson.
- MR. CULLEN: I was just wondering, in
- 16 terms -- I'm interested in exploring your idea of
- 17 a state chartered non-profit corporation to
- administer the program.
- 19 My question is, do you have any thoughts
- or recommendations on how the contracting would go
- 21 under that arrangement, how the money should flow
- from UDCs who collect these funds; should it go
- 23 through the Electricity Oversight Board, or
- 24 directly to the non-profit, or have you thought
- about the details of that?

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                   MR. FERGUSON: Yeah, I do have a
 2
         comment. And, of course, these are collected by
         UDCs, but they are paid by all customers whether
 3
 4
         they're customers of the UDC or not. And we
 5
         believe it's not at all inconceivable that some
 6
         municipal utilities would want to join this. And
 7
         the way -- the way we see it is that -- is that
 8
         collections come in, they're deposited in some
 9
         sort of account by the Public Utilities
10
         Commission, which the new entity can draw on. And
11
         funding levels and so on, we would recommend, you
12
         know, maintaining the current program levels for
13
         some definite time in the future so that the new
14
         entity can be established and have some certainty,
15
         as they say.
16
                   But that's how we see it, is that the
17
         transfer is basically just a financial one inside
18
         some account.
                   MR. CULLEN: So there's no contract. It
19
         would simply be --
20
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- 21 MR. FERGUSON: With the new entity?
- 22 MR. CULLEN: -- these are your -- yeah,
- 23 with the new --
- 24 MR. FERGUSON: No. The contracts would
- 25 be with the new entity and the program

- 1 implementers.
- 2 MR. CULLEN: Okay. One other quick
- 3 question.
- 4 MR. FERGUSON: And that's similar to the
- 5 way the ISO operates too, is my understanding.
- 6 MR. CULLEN: Okay. I'm interested in
- 7 trying to understand your analysis of the public
- 8 value, because I'm the team lead on this and I
- 9 need to make sure I understand this.
- 10 And maybe -- if you want to give me more
- 11 details later, at a future workshop, that's fine.
- 12 But could you talk to me a little bit about how
- 13 the public -- how you get the difference between
- the public value of 7.5 cents and the private
- value of 2.5 cents. Is that related to the fact
- that not all customers are paying prices on the
- margin that are exactly equivalent to the cost,
- 18 or?
- 19 MR. FERGUSON: No. It has to do with
- 20 the fact that how many -- how many megawatt hours
- 21 are being sold in the system matters. That, I
- 22 mean, if you look at those supply curves, the
- 23 slope of the supply curve may be a few mils per
- megawatt hour, but you may have 20 or 30,000
- 25 megawatt hours or more being sold in that period

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of time. So that, you know, the few mils that
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- 2 come off the price of a megawatt hour get
- 3 multiplied out by however much power there is in
- 4 the market, so in a way there's kind of leverage
- 5 by all the other people in the market. And so
- 6 when you multiply that out, the savings in any one
- 7 hour, especially if the curve gets very steep, are
- 8 quite significant.
- 9 We -- we can go through it, and I'm
- 10 happy to give my spreadsheets and --
- 11 MR. CULLEN: Sounds like we should do
- 12 that.
- MR. FERGUSON: -- we can work that.
- MR. CULLEN: Thank you.
- MR. FERGUSON: But the point is that in
- 16 the spring, the Power Exchange began releasing the
- 17 actual bid data from which they construct the
- 18 supply curve to find the market clearing price in
- 19 every hour. I mean, there's -- instead of just
- 20 one price at one quantity for a market clearing
- 21 price that we used, you've got I don't know how
- 22 many bids, hundred bids, you know, every hour.
- 23 And the thinking of the economists on this, it
- 24 would be possible to actually use the actual bids
- 25 and find the slope at the market clearing price in

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every hour on the supply bids.
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I've talked to Power Exchange staff about this, and they indicate that the proxy 3 4 curves are not bad. But it's possible to do that 5 if you've got some spare computer time. 6 MR. CULLEN: Thank you very much. 7 PRESIDING MEMBER LAURIE: Thank you, Mr. 8 Ferguson. 9 Gary Matteson, from UC? Lisa Wood, please? 10 11 MS. WOOD: Good morning. I'm Lisa Wood. 12 I'm here from the City of San Diego, and I'll 13 follow in the same mode as the gentleman from the Sierra Club. I'll talk first about the program, 14

15 and then about the administration of the program. 16 Very briefly, the importance of the 17 continued funding of the program is a no-brainer. Environmental issues are paramount, and energy use 18 19 is probably the single biggest contributor to 20 environmental destruction of any other aspect of our lives. So in terms of when you're talking 21 22 about the magnitude of continued funding, I would 23 urge from an environmental perspective that it 24 should be kept at as significant a funding level 25 as possible.

1	From our perspective, of course, there's
2	an importance of local control of funds. Local
3	governments are close to the users. We can be
4	involved in the distribution of funds. We can
5	identify needs. Local governments, from our
6	perspective, should be encouraged to take a
7	greater role in energy conservation efforts.
8	Agenda 21 issues come to the forefront. In other
9	nations, local governments have taken a much
10	stronger role in environmental issues, and I think
11	it's very important in California that we do so
12	here, as well.
13	State and local governments should lead
14	by example. And we can do that if we're more
15	involved in these programs.
16	I'd like to also stress the importance
17	of demonstration projects. And again, this is a
18	place where state and local governments can take
19	the lead. In the City of San Diego, we have a
20	demonstration project, Ridgehaven Green Building,
21	which you may have heard of, and I think these
22	kinds of programs are extremely important.
23	Also, I've been talking with a few
24	people who are involved in this issue, and I
25	understand that bang for the buck is a very

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1 important issue. And when you're talking about
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- big corporations and what they can achieve in
- 3 terms of actual kilowatt hours saved, you're
- 4 talking about significant savings, and again, that
- 5 rolls into very effective protection for the
- 6 environment when you're going for the big bang for
- 7 the buck.
- 8 But that's not the only issue. And I
- 9 think there are under-served communities out
- 10 there. I think there are under-served communities
- 11 that may need extra incentives to realize the
- savings that you can get from energy conservation
- programs. So I would emphasize a focus on looking
- both at bang for the buck and at serving under-
- 15 served communities.
- Okay. So that's about the program
- 17 itself. With regard to the administration of the
- program, from our perspective, obviously it's very
- 19 important that red tape is minimized. And I
- think, again, that I'm just repeating what the
- 21 Sierra Club representative said, avoiding micro-
- 22 management is very important. On the other hand,
- 23 detailed technical assistance, the other side of
- that, can be very effective. So when you're
- looking at, you know, where to put the emphasis,

1 it's not a micro-management, but it is on detailed

- 2 assistance.
- 3 The program should be administered as
- 4 creatively as -- with as much flexibility, and
- 5 with an idea to being very clever about this.
- 6 There are clever ways to realize energy savings.
- 7 From our perspective, the CEC is in a good
- 8 position to understand and influence and take
- 9 advantage of things like rate structure, and
- 10 assistance to the people that would be receiving
- 11 the incentives.
- 12 In addition with the issues of
- administration, the issues mentioned above, such
- 14 as the importance of continuing the funding, the
- importance of local control, all of these things
- should be addressed. And from a local
- 17 perspective, we would obviously like the ability
- 18 to influence the distribution of the funds if the
- 19 program seems not to be addressing locally
- 20 perceived needs.
- 21 And I don't have written comments, but I
- 22 can provide them at a later date if they would be
- useful.
- 24 Any questions?
- 25 PRESIDING MEMBER LAURIE: Thank you, Ms.

- Wood.
- 2 Any questions for San Diego?
- 3 Commissioner Pernell.
- 4 COMMISSIONER PERNELL: Ms. Wood, can you
- 5 give me an example of local control, local
- 6 entities working with the overall program?
- 7 MS. WOOD: An existing example?
- 8 COMMISSIONER PERNELL: Any example.
- 9 MS. WOOD: Okay. I'm new to energy
- 10 conservation. I got put on this in January. And
- in our department, for the City of San Diego, we
- have I think one of the better programs that's
- 13 available locally.
- We have the Ridgehaven Building, which
- is a demonstration Green Building. It was the
- 16 first building in the nation to receive the Energy
- 17 Star award. And as part of our outreach to the
- 18 community in that building, we have a public
- 19 library that is open to the public, and it
- 20 emphasizes environmental literature. It's
- 21 specifically an environmental library. And people
- coming in to use that library, they not only
- 23 receive the benefits of the local library, but
- 24 they're also exposed to the Green Building and the
- 25 displays that we have in the Green Building

1 promoting energy conservation, water conservation,

- 2 indoor air quality, and other environmental
- 3 issues.
- 4 Our department also deals a lot with
- 5 waste reduction, and of course that's a big focus,
- and there are a lot of displays on that, as well.
- 7 In addition, our conference facilities
- 8 that are available, first to our department but
- 9 also to people outside the department, bring
- 10 people through the building so that they have an
- 11 opportunity to see the displays. And we receive
- visits from members of the community and from
- people all over the world. We've had dozens of
- 14 countries come and visit our building to see what
- it is we're accomplishing in terms of energy
- 16 reduction.
- 17 So that's one way that -- through our
- demonstration building, that we've provided quite
- a bit of outreach to the community.
- 20 We also, because we're involved in waste
- 21 reduction and other environmental issues, we have
- a number of opportunities to provide outreach to
- people that we do do.
- 24 In addition, because we -- because I
- work within the city, and I previously worked in

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1
         -- let's see, I've been with the Environmental
 2
         Services Department for ten years, but I
 3
         previously worked in the Planning Department, so
 4
         I've been working with the planners on outreach to
 5
         the public. Some easy steps we took, for example,
 6
         were when people were building -- getting
 7
         construction and demolition debris permits.
         were initially directed to our landfill. Now, we
 8
 9
         direct them to do recycling. To the recycling --
10
         the private recycling centers throughout the city.
11
                   We're working with the permit planners
12
         to incorporate not only waste reduction measures,
         but also sustainable development measure, and
13
14
         including energy reduction. We want to be, again,
15
         doing this on strictly a voluntary basis, at least
16
         initially, similar to programs in Santa Barbara
17
         County and in Phoenix, Arizona, where with each
18
         permit applicant that comes through the door we
19
         have an opportunity then to talk to them about how
         to incorporate these materials, these ideas, these
20
21
         concepts, into each and every project, whether
22
         it's a new building or it's a permit for some kind
23
         of a modification to an existing building. It's
         an opportunity for us to talk about sustainable
24
25
         development issues with them at that point, as
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- 1 well.
- 2 So we're working on that. We're also
- doing internal programs, just with various city
- departments. But, of course, each city department
- 5 has outreach to the public, as well.
- 6 So I'm not sure if I'm -- I'm kind of
- 7 rambling on here. I'm not sure if I'm answering
- 8 your question, but we certainly are face to face
- 9 with the public, and there are a lot of
- 10 opportunities.
- 11 COMMISSIONER PERNELL: Well, I think you
- 12 -- you did a good job there. I guess what I'm
- 13 getting out of that is a heightened educational
- 14 program centered around energy efficiency, as well
- as possible some local ordinances as it relates to
- the permitting process.
- MS. WOOD: Right. We're -- yeah, we're
- 18 working through the permitting processes, as well
- 19 as informational campaigns. In our department we
- 20 have two full-time public information officers
- 21 that are dedicated to various environmental
- issues.
- 23 COMMISSIONER PERNELL: Thank you.
- MS. WOOD: Okay. Thank you.
- 25 PRESIDING MEMBER LAURIE: Any other

- 1 questions of San Diego? Yes.
- 2 MS. LEWIS: I have a question. You
- 3 talked about under-served communities. What
- 4 groups do you have in mind?
- 5 MS. WOOD: Well, what I'd -- what I'd
- 6 like to see, for example, in our -- in our
- department, again, we have a grant from the
- 8 International Council for Local Environmental
- 9 Initiatives, and we have some programs through
- 10 them. And part of that program is the climate
- 11 wise program. We were supposed to have partners
- and bring those partners on board to have energy
- 13 reduction goals and action plans. And the focus
- 14 so far seems to me to have been kind of the no-
- brainers, the Hewlett Packards and the QualComs.
- And those are -- those are organizations, those
- are companies that have very sophisticated energy
- 18 conservation programs already.
- 19 And so where I would like to see our
- 20 climate wise program go, and also additional grant
- 21 funding if we're able to achieve it, is more
- toward businesses that may not be as well hooked
- in to the informational side of things, that may
- 24 need a little bit more up front, incentive or
- 25 education to get going.

1	For example, our Barrio Logan Community
2	has a large commercial industrial area. They're
3	small businesses, they're usually not national
4	businesses, they're often local businesses. Many
5	times they're run by people who have English as a
6	second language. And I think there's an
7	opportunity where we're on the ground, we're
8	working with those communities anyway. There are
9	non-governmental organizations in our community
10	that have outreach to those communities, and we
11	could partner up with those NGOs and with our
12	existing community outreach, I think, to very
13	effectively bring the message to those kinds of
14	communities.
15	Also, of course, there's an opportunity.
16	We have RMDZs in our area, Recycling Manufacturing
17	Development Zones, and again, those areas are
18	receiving assistance, but they're receiving
19	assistance from the waste management end. And
20	they tend, again, not to be big national
21	corporations that are already hooked in to ideas
22	about ISO and that kind of thing.
23	PRESIDING MEMBER LAURIE: Mr. Messenger.
24	MR. MESSENGER: One other quick
25	question. In terms of the way that the money

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1
         might come to you, let's assume that we have set
 2
         up a system where the City of San Diego was going
 3
         to receive money. Would you prefer that the money
 4
         come from some statewide administrator, like the
 5
         non-profit corporation in Mr. Ferguson's example?
 6
         Or does the city have a preference working with,
 7
         you know, maybe a market specific administrator
 8
         who would be for profit or non-profit, and you
 9
         could apply for, you know, a residential type of a
         demonstration, or commercial, or -- do you have
10
11
         any ideas about who do you think you could work
12
         better with? Because that's one of the things we
         have to grapple with, is statewide versus
13
14
         regional, that type of thing.
15
                   MS. WOOD: Right. Right. Well, again,
16
         I've been with this program only since January.
17
         Most of my experience has been dealing with
         environmental regulatory agencies, Fish and Game
18
19
         and the Integrated Waste Management Board, and
20
         also on the national level, Fish and Wildlife and
21
         the Corps of Engineers, that kind of thing. And
22
         what I find is when there are local boards, for
23
         example, the Air Pollution Control District or the
         Regional Water Quality Control Board, when you
24
25
         have people locally, they understand your local
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- 1 needs.
- 2 So obviously, if there are
- 3 administrators in a local area, we have a local
- 4 assistance person that we work with from the
- 5 Integrated Waste Management Board, that's far
- 6 better than working with somebody who's in
- 7 Sacramento and has never even to San Diego. So in
- 8 terms of that, that's my experience.
- 9 I'm not saying, you know, I'm not saying
- 10 how you should organize it, but, you know. And
- also, most of my experience has been dealing with
- 12 government agencies, most of the grant funding
- that we have already for our energy program comes
- 14 -- even the ICLEI grant, the International Council
- for Local Environmental Initiatives, is a non-
- 16 profit organization, but their funding comes from
- 17 DOE and EPA, and they -- so it's -- that also is
- 18 government funding, and it comes specifically to
- 19 local government agencies.
- 20 So my experience, and my comfort zone is
- 21 with government agencies.
- 22 DEPUTY DIRECTOR MATTHEWS: Just an
- observation. We're going to be struggling with
- 24 what the role of local governments should be, and
- I invite you to continue to participate. And we

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1 need to -- we need to get some clarity on -- on
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- what those roles and relationships ought to be.
- 3 And I think it's a challenge for us to figure out
- 4 how to best work together.
- 5 I did see Mr. Raymer jump up excitedly
- 6 when Commissioner Pernell asked his question. I
- 7 don't know if you want to take him next, or let
- 8 him respond to the question.
- 9 PRESIDING MEMBER LAURIE: The answer is
- 10 no.
- 11 (Laughter.)
- 12 PRESIDING MEMBER LAURIE: Thank you.
- 13 Michael Parti.
- MR. PARTI: Good morning.
- 15 PRESIDING MEMBER LAURIE: And ladies and
- gentlemen, when you come to the podium, could you
- 17 again say your name and your organization, please.
- MR. PARTI: Sure. I'm Michael Parti,
- 19 and I represent Applied Econometrics. We are a
- firm that does evaluations of conservation
- 21 programs and forecasting, and other things that
- are related to those things.
- 23 And those are -- those are really the
- 24 sorts of issues I'd like to address this morning.
- I only have a few very short points to make. I

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will, however, be filing a general plan that you

can use for -- that'll have some suggestions for

how to structure market transformation planning

and evaluation, but I don't have that with me

today.
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I think we have -- the first point that

I'd really like to address is that I think we have
a marvelous opportunity to use the experience that
we've had in California for the past few years in
evaluating programs, as a guide for the future.

To a certain extent, I think that the protocol,
the California protocols, for example, that we've
had, have worked out very successfully. And there
have, however, been a few -- a few rough spots.

And I think it probably would be worthwhile for
the Commission to do a process evaluation of the
protocol process to find out what worked and what
didn't work.

My second point is that the evaluation process, as we had it before, gave some lip service to the idea of a structure of feedback and control loops. That is, you, in a feedback and control loop set up for evaluation what you do, is you have a first cut at what looks like a sensible program. Then you monitor the program, and you

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find out what parts work and what parts didn't

work. And then you try to fix the parts that

don't work to see if you can make a viable

program.
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By and large, what we've had up to now are programs that are either yea or nay. So if the evaluation comes out good, then the program may continue, and if it doesn't come out good, it doesn't continue. But I think it's worthwhile. I think a lot of good programs can very easily bite the dust in a -- in a setting like that.

Now, as to -- one more point. As to the administrator, the administrative entity. I don't -- I don't have any I think very hard and fast ideas yet. I think there are a couple of properties, though, that we would like to have this administrator to have. And one is that the administrator should be -- first of all, the administrator should be independent. That is, it should have no incentive to inflate or deflate the value of any program. And I think part of the problem we've had in the past is that there was always such a -- there were always large economic incentives to proving a program worked or didn't work, so I think the program administrator, at

- least, should be independent of that.
- 2 And in addition to that, I think we need
- 3 a further, even stronger test. I think it would
- 4 be appropriate that the administrator should have
- 5 no incentive to promote or interfere with the
- 6 profitability of any of the ESPs in the market.
- 7 Okay. Those are all my ideas.
- 8 DEPUTY DIRECTOR MATTHEWS: You may want
- 9 to use the words instead of the acronyms, that ESP
- is Energy Service Provider.
- 11 MR. PARTI: Oh, okay. Any of the --
- 12 DEPUTY DIRECTOR MATTHEWS: Not
- 13 everybody's familiar with all the -- all of our
- 14 terms.
- MR. PARTI: Yes. Any of the -- any of
- 16 the market retailers.
- 17 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 18 Parti.
- 19 Any questions?
- Thank you, sir, very much.
- MR. PARTI: Sure.
- 22 PRESIDING MEMBER LAURIE: Ed Vine?
- 23 University of California.
- 24 Are you here with Mr. Matteson? No? Is
- 25 Gary Matteson here yet? He had submitted a card.

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1	MR. VINE: My name is Ed Vine. I'm
2	representing the University of California on a few
3	issues. There may be other representatives of the
4	University of California who may appear later to
5	discuss other issues.
6	PRESIDING MEMBER LAURIE: And what is
7	the likelihood that your views are going to be
8	consistent?
9	(Laughter.)
10	MR. VINE: I think we'll have to find
11	out.
12	I do have some specific issues I want to
13	address, and I do have something that I prepared,
14	but I'm going to amend and then submit later,
15	after my presentation.
16	And the key issues deal with the
17	infrastructure that may evolve over time, and they
18	deal with two issues related to emerging
19	technologies and to market transformation.
20	We've been participating in other forums
21	with the California Public Utilities Commission,
22	as well as the California Board for Energy
23	Efficiency, and trying to highlight the importance
24	of what we call emerging technologies. And in

25

this context, we define emerging technologies to

include measures that are not yet commercialized

but are likely to be commercialized and cost

effective to a significant proportion of end users

in the next five to seven years, or they're

commercialized, but currently have penetrated less

than five percent of the appropriate market.

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And this is based on work that has been done recently in a study by the American Council for an Energy Efficient Economy and the Davis Energy Group, in a report entitled "Emerging Energy Saving Technologies and Practices for the Building Sector". This study was done for the country as a whole, and not for California, so immediately I would suggest that in the near term, whenever -- however you define the near term, the Energy Commission and others try to look at emerging technologies from a California perspective. There's probably going to be a lot of overlap between what was done in this, in the ACEEE study and the California study, but there might be some unique technologies and services for California.

23 The University of California believes 24 the -- the Energy Commission should establish a 25 formal process for developing an integrated

1	systematic and strategic approach to emerging
2	technologies, particularly as they relate to
3	market transformation programs. We feel that the
4	Energy Commission should initiate development of a
5	statewide strategic plan for emerging energy
6	efficiency technologies that draws on the
7	resources of the interested stakeholders,
8	including the California Public Utilities
9	Commission, the California Board for Energy
LO	Efficiency, California utilities and the Energy
L1	Commission. Without such an approach, significant
L2	lost opportunities will occur, resulting in the
L3	loss of significant energy and cost savings to the
L4	California ratepayers.
L5	The Energy Commission should also
L6	utilize the resources of the University of
L7	California's California Institute for Energy
L8	Efficiency, CIEE, in developing a strategic plan
L9	for emerging technologies. The CIEE is uniquely
20	situated to provide assistance, as its mission is
21	to plan and manage a statewide program of research
22	and technology development aimed at advancing end
23	use energy efficiency and productivity in
24	California.

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In my preparation, I go over the

background of our concerns and recommendations. I

- 2 think I won't go over that. I will mention
- 3 briefly that at recent hearings where the
- 4 utilities presented their current work that was
- 5 going on, the following concerns arose.
- 6 Number one, the definition of emerging
- 7 technologies does vary from one utility to
- another.
- 9 Two, there is very little coordination
- 10 among utilities in selecting and promoting
- 11 emerging technologies. There is no statewide
- 12 strategic vision for the selection and deployment
- 13 of emerging technologies and market transformation
- 14 programs.
- Three, the utilities no longer have
- specific programs on emerging technologies. The
- 17 emerging technologies are scattered throughout
- 18 utility programs in the residential, non-
- 19 residential, and new construction areas. Prior to
- 20 1999, some utilities did have programs
- 21 specifically targeted to emerging technologies.
- Number four, utility projects on
- 23 emerging technologies are not fully coordinated
- 24 with emerging technology projects funded by other
- organizations. For example, the U.S. Department

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of Energy, the Gas Research Institute, the

Electric Power Research Institute, the CIEE, and
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3 CEC's PIER program.

their full potential.

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- And number five, opportunities for

 collaboration among utilities and other

 stakeholders in California, as well as outside

 California, exist, but have not been exploited to
- 9 We believe the absence of the mention of 10 Section 44, in parentheses, 3, in the public 11 notice on the workshop was inadvertent, which 12 talks about emerging technologies, and did not 13 reflect the CEC's intention to not address this very important topic. Accordingly, we request 14 15 that the CEC redress the situation in the CEC's transition plan by establishing a formal process 16 17 for developing a systematic and strategic approach to emerging technologies, which integrates the 18 19 PIER and market transformation programs.

20 The rest of the presentation, the
21 prepared presentation, again, discusses the
22 importance of utilizing the resources of CIEE.
23 Since 1990, the CIEE, using funds provided by
24 California utilities at the direction of the CPUC,
25 has demonstrated the ability to coordinate and

1	implement a statewide program of research and
2	technology development aimed at advancing end use
3	energy efficiency and productivity in California.

As part of R&D efforts, research have collaborated with the CIEE's utility sponsors, and the Energy Service Industry in fuel testing, transferring and commercializing promising technologies. By developing a network of researchers and potential users of emerging technologies the CIEE has been able to successfully demonstrate its capacity and ability to conduct research and development on emerging technologies, and help bring these technologies into the marketplace.

So we recommend that the CEC work with the CIEE and use CIEE resources to develop a statewide strategy and plan for promoting energy efficient emerging technologies in market transformation programs, and for utilizing the results from these programs in the development of RD&D on emerging technologies. The information resulting from these activities will be used to improve the design and implementation of energy efficient market transformation programs.

Now I'd like to focus on the second

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1
         point dealing with market transformation. We
 2
         think this is one of the critical areas of
         emphasis that the programs in the -- that get
 3
 4
         transferred to the Energy Commission should devote
 5
         to. And when we talk about market transformation,
 6
         we're talking about the promotion of energy
 7
         efficiency in the market. We're looking at
 8
         technologies and products both that are
 9
         commercially available and those, as I just
10
         mentioned, the emerging technologies. We're
11
         interested in services for market transformation.
12
         And also, attitudes, values, and perhaps -- and
13
         behavior, and perhaps the ethic of energy
14
         efficiency.
15
                   The primary mechanisms include
16
         information and education, and creative financial
17
         mechanisms for financing energy efficiency. This
18
         is leading to a paradigm shift from focusing on
19
         energy consumption to the efficiency use of
         resources through the market. Government does
20
21
         have an important role to play, as well as some
22
         other entities I'll mention shortly. But it is
23
         important to work with all the key market players.
24
                   There are both policy and program
25
         barriers that need to be addressed. I'm not going
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1 to go -- present a list of those barriers. I
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- think most of the staff at the Energy Commission
- 3 knows that. But that is one area that needs to be
- 4 addressed when dealing with market transformation
- 5 programs.
- There also, as mentioned by Mike Parti,
- 7 or -- yeah, I think it was Michael, just recently,
- 8 feedback loops. This is important for looking at
- 9 individual -- looking at both energy efficiency
- 10 among individuals, as well as programs. This is
- important when you look at leveraging and what's
- the best way to leverage your resources within a
- market. And the use of feedback loops is
- 14 critical.
- 15 It's vital to have a good understanding
- 16 of the markets, of theory of action, and what has
- been missing until recently, I think, around the
- 18 country as well as in California, is an emphasis
- on theory based program change. And this really
- 20 needs a focus and looking at what are the
- assumptions when you're trying to propose some
- 22 action. What are the hypotheses, and perhaps some
- 23 hypotheses testing. This is critical for not only
- 24 monitoring and evaluation, or measurement and
- evaluation, but also for program design.

1	This could be done either at the
2	Commission, or a non-profit organization, as part
3	of the program development. It may be another
4	option might be providing funds to one or more
5	organizations that focus on developing the theory
6	of market transformation.
7	I say that because there really is a
8	need for what we call interdisciplinary teams,
9	where you have people not just from one
10	discipline, such as engineering, or even
11	sociology, but you bring these people together,
12	because it's a multi-faceted problem and
13	challenge. One possibility is the role of the
14	University of California at one of the campuses.
15	It could be UC Davis, UC Berkeley, any one. But
16	we think there is a need for support at the
17	University level for providing resources for
18	training and educating the people who will be
19	involved in market transformation. Again, both in
20	the design implementation and the evaluation of
21	these programs.
22	These people will focus not only on
23	individual behavior of the key market players, but
24	also the social organizations, and social
25	structures and cultural context. That is

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1 important when you look at market transformation.
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- 2 Again, CIEE can help play a role in
- 3 this, and collaborate either directly with the
- 4 CEC, or with the University organization, and
- 5 coordinate the efforts in market transformation,
- 6 particularly, again, as they relate both to
- 7 emerging technologies and research and development
- 8 opportunities.
- 9 Those are my comments right now. I'm --
- 10 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 11 Vine. Any questions for UC this morning?
- Mr. Messenger, a quick question, please.
- MR. MESSENGER: Can you just give us a
- 14 timeframe in terms of your recommendation that a
- strategic plan be developed? Are you telling us
- to do that post 2001, right away?
- 17 MR. VINE: Good question. I overlooked
- that. From my understanding, you're supposed to
- 19 come up with a report by the end of the year, and
- 20 my understanding is that the utilities will be --
- 21 continue to implement programs for at least two
- 22 more years?
- I think the strategic planning can occur
- as soon as you complete this -- the reports you're
- working on now, so January 1st of next year, I

1 think. Unless there are some institutional or

- legal barriers to that, I think you can begin that
- 3 the beginning of next year.
- 4 MR. MESSENGER: Thank you.
- 5 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 6 Vine.
- 7 Mr. Link. Mr. Don Link.
- 8 MR. LINK: My name is Don Link. I work
- 9 for an electrical contracting firm. We are at the
- 10 place where we're up against the road at the
- 11 energy conservation. And I'd like to thank you
- 12 for having us here to talk to you.
- My comments, the written comments are
- fairly extensive, so I will not go over them
- 15 except in a general way. And I guess what I'm
- talking about here today is a qualitative issue
- for the incentive programs.
- 18 As I see it, incentives of some sort
- 19 will probably be necessary in the future, and
- 20 taking up what Mr. Vine was just talking about,
- 21 there are particularly --
- 22 PRESIDING MEMBER LAURIE: One question.
- MR. LINK: Pardon me?
- 24 PRESIDING MEMBER LAURIE: Do you
- actually represent the organization?

1	MR. LINK: This is California
2	Association of Lighting Efficiency Professionals.
3	PRESIDING MEMBER LAURIE: And you are
4	there on that you are here on that
5	organization's behalf?
6	MR. LINK: I'm here on behalf of that
7	organization. It's a trade group that represents
8	approximately 25 to 30 lighting companies
9	throughout California.
10	The incentive programs are very
11	important for the development of new technology.
12	We have seen this over the years from the early
13	eighties, as the technologies have changed. And
14	what we would ask is that the California Energy
15	Commission, as it assumes responsibility for
16	crafting the new arrangement, the new structure,
17	be very sensitive to the need for stability and
18	predictability in the incentive programs.
19	Very recently there have been some
20	drastic changes made that have upset the industry
21	quite a bit, and the predictions are this year
22	that the moneys available for incentives will be
23	pretty in a major way, under-subscribed. Only
24	the direct rebate seems to be spending the funds

available. The small, standard performance

1 contracting program is pretty much a bust for all

- three utilities, at about a 30 percent level, and
- 3 -- level of subscription predicted by the end of
- 4 the year. It's much, much lower right now, it's
- 5 more in the range of five or six percent.
- 6 And I'd ask also that the California
- 7 Energy Commission be very careful about
- 8 inclusiveness. That all ratepayer types be
- 9 eligible for programs, and that all classes of
- 10 trade allies be involved in the process of
- 11 crafting these programs. There's a real need for
- 12 sensitivity and respect for precedents in the
- energy efficiency field. The programs have been
- 14 pretty effective to this point. California has
- been the leader in the nation, and is the envy of
- 16 much of the nation and the world in what it's
- 17 accomplished, but it is a fragile industry that
- the marketing can be very easily upset.
- 19 And I would ask that the California
- 20 Energy Commission take the positions first
- 21 directed, and that is first of all to do no harm.
- 22 And if you move in and change things drastically,
- 23 upset the stability of the industry, and make
- 24 changes without announcement so that people can
- 25 plan for them and actually put them on the

calendar, what happens is the industry goes to a standstill.

3 And in the lighting industry, there is a 4 lot of truth to that situation right now. The 5 lighting has not been doing what it was doing six 6 months or a year ago. And we can lay this to the 7 changes that have been put into the incentive 8 program, particularly the attempt in market 9 transformation to force standard performance 10 contracting down the industry's throat. It works 11 for one part of the industry, particularly ESCOs, 12 which have used that as a marketing and a sales 13 and implementation tool for a number of years, but 14 it does not work in the simpler programs. A 15 lighting program that can be completed in two 16 months shouldn't take a year or two years to 17 finish the bureaucratic paperwork and the payment of the incentive. 18

A good example to this sensitivity to the past, which is what I'm asking you to do, is in the 1980's, PG&E territory had a custom rebate which was based on KWH saved, which is basically what the standard performance program is doing.

It was effective, it was flexible, it was very easy to administer, and it was cheap. It was very

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1
         cost effective. That was discontinued.
 2
         standard performance contract which has been put
 3
         in place to replace it and to change the way that
 4
         the market does its business, by contrast is
 5
         complicated, rigid, cumbersome, costly, and it's
 6
         being arrested -- excuse me, resisted by both
 7
         trade allies and customers alike. That's going on
 8
         right now. It's why the -- these programs are
 9
         under-subscribed.
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So basically, in closing, I would ask that we learn from the past and be cautious about discarding its better lessons as we look at the incentive programs in the future, and that we craft these programs keeping the best of what was working in the past, and that they be market driven and administered not in a top down fashion but in response to the marketplace and the trade allies who are out there actually doing it. That, today's market transformation, I think, is attempting to do it the other way, top down.

And our organization did not exist eight

22 months ago. When this incentive program was
23 announced, very much as a surprise to people,
24 insiders in the industry who work with the
25 utilities alike, this organization sprang up like

1 a -- I was going to say a week, but I think I'll

- 2 say a flower in the forest.
- 3 (Laughter.)
- 4 MR. LINK: And we're going to be there.
- We're going to be around. Mr. Messenger can
- 6 certainly attest to it. I've seen him. And on
- 7 that level, I think it's very important that the
- 8 CEC be very important in monitoring what's going
- 9 on with the CBEE right now. There are some
- 10 important mistakes. There are probably going to
- 11 be some good things that come out of the program,
- 12 as well. But I think it's very important to look
- 13 at the mistakes, because if they're repeated in
- the future, I'm saying that I think you can kill
- parts of the industry that have been delivering
- 16 most of the KWH savings that you've been -- that
- 17 you're here, really, to talk about.
- Thank you.
- 19 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 20 Link.
- 21 Mr. Wilson.
- MR. WILSON: Mr. Link, how long have
- 23 these rebate programs existed?
- 24 MR. LINK: The rebate programs I believe
- started in 1982 or '83, which puts them back 16,

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1 18 years ago.
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MR. WILSON: One of the goals of market transformation is to transform markets so that 3 4 rebates aren't needed. How do you see market 5 transformation working in the future so that the 6 rebates might not be needed, or the kinds of 7 problems you're talking about? 8 MR. LINK: Addressing that, I think if 9 you're going to foster new technologies, you're 10 probably going to have to keep some sort of incentives around, some sort of subsidies, 11 12 basically. I like the word subsidy better than 13 incentive or rebate, or any of those things. 14 That's really what it is. 15 The subsidy allows, and it's in the 16 literature that I gave you, the subsidy allows the 17 -- the new technology to get a start. It gets 18 acceptance and recognition in the marketplace. 19 The economies of scale come in, competition 20 develops, and prices go down. And if you need 21 examples of that, occupancy sensors are a good 22 one. Electronic ballast TA lamps, another very 23 good one. The electronic ballast that was \$30 or \$40 when it came out can be purchased now for 24

about 12 bucks. And it's a universal application.

1 Well, that happened with subsidies early 2 on, and now we're down to a level of about 15 percent of project cost, is what rebates are 3 4 paying. The standard performance contracting 5 program is at about twice that. It's an expensive 6 way to do it. And, as I say, it's being resisted 7 by my part of the -- of the energy efficiency 8 industry. 9 Beyond that, if subsidies are going to 10 disappear, I think it's very important that it 11 happen in an announced, scheduled way, so that the 12 industry -- not the academicians, not the guys 13 sitting here playing with the market and saying let's do this and see what happens over here --14 15 let the marketplace respond to it. If you 16 announce that in 2003 there are no more rebates, 17 and you had a scheduled reduction of those to

21 watch that as you did it.

22 The best thing that could happen is

23 you'd get creative people thinking, and self
24 interest propelling them to figure out a way to

25 work the market.

zero, the marketplace would respond. And the

worst response might be that it would go away,

which would be awful, but you'd have a chance to

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But I am saying don't do it from top

down. You're trying that now, it's not working.
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- 3 That's why I'm here. I should be on a jobsite.
- When I leave here I'll be going to a school
- 5 district that we're completing now.
- An example, a year ago we did the San

 Jose Unified School District. It took a year to
- 8 do the whole district. It would've taken over a
- 9 year and a half to do it and be completed with it
- 10 under standard performance contracting. That
- 11 doesn't make sense. And they didn't want it. An
- 12 ESCO did the job, and didn't use the SPC program
- because the rebate made better sense.
- 14 You've got to open this up so that the
- players out there can say I want to use this
- method, not that method. If you're getting the
- 17 KWH savings, do you care whether they do it under
- 18 the red banner or the blue banner? And that --
- 19 that's what I'm saying, and I don't think market
- 20 transformation, the way it is being imposed on the
- 21 marketplace, is going to be successful.
- 22 And, again, that's why I'm spending my
- time. There've been many hundreds of hours spent
- 24 by people in our organization addressing bodies
- 25 that are dealing with these issues. We feel about

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1 it passionately. Most of us, as I've mentioned
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- before and it sounds a little self-serving, are
- 3 sort of good boy scouts. We're in the industry
- 4 not just to make money, but because we enjoy doing
- 5 what we're doing, and the benefit it does for
- 6 society, for the planet, for the ecology, for the
- 7 environment. And I suspect most of you people
- 8 also share those kind of attitudes.
- 9 But it's -- it's a real thing in the
- 10 industry, so there's more passion, I think, than
- just the money issue would bring into it. And
- we're just saying don't kill our industry by
- fiddling with the market, particularly if you
- don't understand the details.
- MR. WILSON: Excuse my ignorance of your
- 16 -- your association, your companies. But do you
- 17 consider your -- do your members consider
- 18 themselves ESCOs?
- MR. LINK: No.
- 20 MR. WILSON: Or are they just
- 21 contractors?
- 22 MR. LINK: ESCOs are -- Johnson Controls
- is a good example of an ESCO. Honeywell, Landis
- 24 Siemens, they're very large companies. They often
- 25 provide extensive comprehensive retrofits. Rick

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1 Sperberg is here, and I'm sure he will speak to
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- what they do. They will go in and they will do
- 3 HVAC. They'll do boilers. They will do lighting
- 4 usually to pay for it.
- 5 San Jose Unified School District
- 6 replaced its -- its swimming pools and its
- 7 heaters, and its air conditioning equipment, by
- 8 the lighting savings. And it's what made the
- 9 thing work. The savings in this case amounted to
- 10 close to 60 percent of the energy being used.
- 11 None of these other measures have that kind of
- 12 payback from savings, and they usually have very,
- very long paybacks, 10, 15 years. So the stuff is
- 14 bundled, and the standard performance contracting
- 15 programs work particularly well at that level,
- where you're bringing in infrastructure, major
- infrastructure replacements along with the
- 18 quicker, easier types of retrofits that gather
- 19 lots of KWHs quickly.
- 20 Lighting does it. Lighting -- lighting
- 21 has done it. It's the quick and easy way to get a
- 22 lot of savings. And for that reason, I think that
- the ESCO issue is not whether we're ESCOs. We
- don't want to be forced to act like ESCOs, because
- it is not in our interest and it's not in the

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1 interest of energy saving. At the same time, I'm
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- 2 working for an ESCO right now on the school
- district, and that will go on.
- But I do have other customers that I
- 5 can't deal with, and who -- we've actually had
- 6 several that decided not to do the projects at all
- 7 since this change. Well, that's just -- that's
- 8 discouraging when you set up a relationship with a
- 9 customer, and you're trying to foster that and
- 10 move on to the future.
- 11 As it is now, a large customer, over 500
- 12 KW, cannot do anything under the rebate program.
- So if they're going to remodel part of their --
- 14 their facility, which happens constantly in
- 15 hospitals and office buildings, they're out of
- luck. They're not going to use the SPC program
- for it. It's far too expensive and troublesome.
- 18 So many times they just put it on the back burner
- 19 and don't do it.
- That's probably more than you wanted.
- 21 PRESIDING MEMBER LAURIE: Commissioner
- Pernell.
- 23 COMMISSIONER PERNELL: Mr. Link, your
- 24 association, is it strictly commercial? Do you do
- 25 residential lighting retrofits, as well?

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                   MR. LINK: I think that it would be safe
 2
         to say that maybe one percent of it would be
 3
         residential. It's not a part of the industry that
 4
         lighting companies seek, because of the scale.
 5
         It's difficult to send a truck out to put in one
 6
         or two fixtures in a -- in a residential setting.
 7
         At one point, multiple residential condominium
 8
         complexes, apartment houses, hotels, things of
 9
         that kind, were a target. But I think most of
10
         them have done the work at this point, and if it's
11
         a Mom and Pop on Elm Street, lighting companies
12
         generally do not work with them. And the products
         are available in the Home Depots and the various
13
14
         -- and the Orchard Supply Hardware stores, so they
15
         can put them up themselves.
                   COMMISSIONER PERNELL: What about a new
16
17
         subdivision coming in with 150 homes? Have you
18
         looked at that as a -- a way to engage the market?
19
                   MR. LINK: I think all of the companies
20
         have done projects on that scale. But there
21
         aren't very many new subdivisions with 150 houses,
22
         and many of them are already mandated to have the
23
         kind of lighting we would be putting in anyway.
         Title 24 has come a long ways to forcing them to
24
25
         do the smart thing. We're also finding that a lot
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of the lighting designers and electrical engineers

- 2 are including these in their specifications now.
- 3 So we're not seeing as much dumb stuff being put
- 4 up now.
- 5 COMMISSIONER PERNELL: Thank you.
- 6 MS. TEN HOPE: Commissioner?
- 7 PRESIDING MEMBER LAURIE: Go ahead.
- 8 MS. TEN HOPE: You've talked about
- 9 rebate programs as -- as being an option that you
- 10 prefer. Are there other types of programs that
- 11 support the efforts that -- that you're doing,
- educational programs or other types of programs?
- MR. LINK: Yes.
- MS. TEN HOPE: And what --
- MR. LINK: In -- in our literature there
- 16 -- we mention there that the educational job that
- 17 has been done by the utilities during the eighties
- and nineties is largely responsible for where we
- are now, and the successes we've had. Energy
- 20 conservation is not a hobgoblin to most people in
- 21 society. They've heard of it, they understand
- that it probably does work. And I think the
- utilities have come a long way.
- 24 It seems that in the last few years the
- 25 utilities have been made the whipping boys of the

1 situation of this market transformation thing, and

- 2 I'm not sure that it's entirely fair, given how
- far they've brought us along the way. I don't
- 4 know if it came kicking and screaming. That --
- 5 that happened on the other side of the fence. But
- 6 we worked with them, and to their credit they've
- 7 actually consulted us about rebates.
- 8 And surprising to you, you might be
- 9 surprised to learn, we have recommended that
- 10 rebates come down for certain items as they become
- 11 less expensive. And I have several colleagues who
- 12 work directly with utility administrators crafting
- 13 the incentive, so that -- it used to be 30 or 40
- 14 percent, and it was a lot easier to sell at that
- 15 time. Now it's down to about 15 percent, it's
- 16 pretty squeaky. And if it gets a lot lower than
- that, it's not going to be a consideration. That
- is not going to -- that's not going to propel a
- 19 potential customer to move ahead with the program.
- 20 So the direct rebate programs are simple
- and quick, and very easy to administer, and
- they're very cheap for the utilities to
- 23 administer. Standard performance contracting,
- just the study of SPC recently cost \$200 to a
- 25 thousand dollars that the CBEE spent to get a

fixed study that said it wasn't working. And then

- the CBEE ignored it and said well, what can we do
- 3 to make this thing work better, how can we go
- 4 further down the road with this.
- 5 So it's -- it's an expensive program
- 6 that has its place, but I don't think it should be
- 7 dominant for the entire industry. Certainly not
- 8 for our part of it. We would use it where it's
- 9 appropriate. And we do pair up with mechanical
- 10 contractors and mechanical companies to do HVAC
- 11 projects along with the lighting. That's
- 12 something that -- that partnering does go on.
- MS. TEN HOPE: Thank you.
- PRESIDING MEMBER LAURIE: Is that it?
- Thank you, sir.
- MR. LINK: Thank you.
- 17 PRESIDING MEMBER LAURIE: William
- 18 Nelson.
- MR. NELSON: Good morning,
- 20 Commissioners, staff. My name is Will Nelson. I
- 21 represent Residential Energy Efficiency Clearing
- 22 House. I want to thank you for this workshop type
- of opportunity for people to come in and talk to
- 24 you about your -- your task before you, the
- 25 transition report.

1	On the headline question of should these
2	programs exist, should funding go forward, I would
3	comment that after a century of stupendous
4	industrial and technological growth, which has had
5	impacts on the environment that we have yet to
6	even scope, I think there is no question but that
7	the public spirit needs to make a commitment for
8	at least a generation, for the foreseeable future,
9	to funding and investing the types of efforts that
10	we see with the energy efficiency program.
11	The level is currently approximately 1.7
12	percent of the electric rate component which
13	compares disfavorably with up to ten percent in
14	other countries. I'm not suggesting that it
15	should be increased at this time, because I
16	believe that there are co-investment and market
17	based mechanisms that can effectively increase
18	that investment, and I would want to see any
19	future programs proven out and developed before we
20	increased the levels. Although, as I step through
21	the outline that I presented to you, you'll
22	probably see at least a billion dollar program
23	annual, as opposed to a quarter billion dollar
24	program, approximately, where it is.

25 This outline is -- I'd like to speak to

1 you about some dimensions in thinking about your

- 2 transition report. Some of the recommendations
- 3 are specific. Some of them are basically food for
- 4 thought, as -- as you look at this program and
- 5 look at your other responsibilities.
- 6 First of all, you have a job before you
- 7 to create and recommend and transfer an
- 8 administrative framework, one that has been quite
- 9 contested for a number of years. You have a good
- 10 body of testimony and experience and background, I
- 11 think, which -- which helps form up many of the
- 12 questions, but I would say to you, for your report
- to really focus on the administrative framework
- questions and focus on financing mechanisms, and
- just what the mechanisms will be for where that
- money goes. And I'll get that -- to that in a
- moment, in saying that the customer should be a
- 18 much more direct part of that equation. We still
- 19 haven't even achieved that. And customer choice
- 20 was intended to be one of the keystones of
- 21 electric restructuring.
- I am not downplaying program substance
- 23 by any stretch, or program design. But I suggest
- 24 to you your job is so big that you need to focus
- on administrative -- I believe that many of the

program questions will follow if you keep your eye

on the administrative ball.

My second point in the recommendations is that you should institutionalize and make recommendations for how the Utilities Commission role is institutionalized. I'll give just one example. What should be the Utilities Commission rate component review process. Should it occur annually, should it occur biannually, should it occur in joint session, should there be -- should it be funded. Should their energy division be funded on an ongoing basis to be researching that.

And let us not forget that the Utilities

Commission will remain the powers body on

questions over meters, the bill, the billing

platform, and that that commission has the powers

to initiate orders. I believe that you will -
that the public sphere will need those powers in

order to accomplish certain ends.

The third point of the outline is I -in my years of thinking about this, and thinking
about electric restructuring, I've come to a
conclusion that for the time being, as we look
forward, how we assemble programs, how customers
make decisions, how the details get worked out, I

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believe we should consider that the utility
distribution company will be the primary billing
company, and that they will be the basic
verification agent in that respect.

Now, when I speak of verification, I'm
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Now, when I speak of verification, I'm talking about a very rudimentary one, that an account exists, a service delivery point exists, and a given level of energy usage might exist.

I'm not talking about a performance verification.

I think that will uncomplicate a lot of things. That's the position that we've reached, because we would like to see the public sphere go forward in promoting point four here, customer based and customer choice decisions. And we believe a voucher program, with all of its details, is feasible for large energy users, for the institutional sector, for the government sector, that can aggregate large numbers of accounts and come up with a fairly substantial

such a voucher, but this is where I come back to the UDC being the basic account verification

chunk of money that they can regard as their own

money. I won't go into the details of calculating

24 agent.

On the reverse of this outline, you'll

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1
         see in terms of the objectives, rough timeframes
 2
         and a rough sequence of priorities. And I'm
         suggesting that year 2001 can be the base
 3
 4
         reference year for the energy usage levels upon
 5
         which a customer would obtain its voucher.
 б
                   Moving on to point five of the outline,
 7
         and just to point out, number five, number seven,
 8
         and number twelve are the overly ambitious
 9
         recommendations to this body, and really push the
10
         envelope, I would expect, of what -- what you see
11
         your mission on this report. But I want to speak
12
         to them, because I believe they're very important.
13
                   Again, in thinking through this over the
14
         years, because you're about to invent a wheel, I
15
         propose to you that you incorporate the planning
16
         for distributed power and cogenerated power
17
         generation. It should be integrated. To what
         degree, I don't know. But I do not think it
18
19
         should be left out of the administrative
20
         framework. That's a big bite to chunk off.
21
         might be a non sequitur. I believe it's
22
         essential.
23
                   Unfortunately, cogeneration has been
         left out of the energy efficiency definition at --
24
         through the Public Utilities Commission rulemaking
25
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1 and definitions. And that's a theology that I
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- won't argue here, other than to say we didn't
- 3 support that definition. We believe that
- 4 cogeneration is part of the energy efficiency
- 5 equation. We believe it's integral to the future
- of planning distributed power.
- 7 On point six, we believe that the
- 8 information -- rather than thinking of your agency
- 9 as a market actor, which I -- I don't expect you
- do, we do support a strong information -- I'll
- 11 call it an information authority, even. Here
- 12 again, without going into the details, which many
- of you are familiar with, whatever information you
- decide you need to administer this program,
- 15 whatever information you decide that you need
- 16 statutory power, or a statutory powers partnership
- 17 with the PUC, it's incumbent upon you to define
- 18 those and spell those out. Because in more --
- 19 more cases than not, you will not get the
- 20 information you want unless you have those
- 21 statutory powers.
- 22 Point seven, you may not consider this a
- 23 central mission of your agency. Given where
- 24 California is, on the edge of tectonic plates,
- given its history, given our viewpoint that the

state is still behind where it should be on site
assessment and site disclosure, given that we
support strong funding for the data acquisition
and site assessment role for energy efficiency on
sites, we believe that that data acquisition and
site assessment should be synergized at some level
with seismic hazard assessment.

I'm not saying this agency should undertake the task of the California Earthquake Authority. I'm saying in whatever common building archives and data archives are being developed through public agencies, duplication be avoided, synergies be sought, and that we move forward as — as quickly as possible to more accurate and better seismic assessment bases.

As many of you are probably well aware, the utilities themselves have a significant technical and engineering effort ongoing for their own system with seismics. Not that they have direct responsibility on the buildings, but that's just a footnote on this.

Point eight, we believe the time has come for the Energy Commission to plan for a financing authority. We believe you should take a look at that, and that should be a part of your

transition report in describing how the state and its customers can take advantage of the tax advantages, and the capital flows that could be made available through such a financing authority connected with energy efficiency programs. This would be especially useful for the early adopters of the large energy users and a voucher program, as well as institutional and government users.

We would suggest that this financing authority be answerable, and be under the powers of the Energy Commission, but that it should be relatively semi-autonomous. We support a professional qualified directorship for such an authority that would be appointed by the Commission. We do not support the appointment of the directors of such a body by either legislative leaders or even the Governor. Although we would not rule out the possibility of having the Governor appoint the chair of such a body, we would prefer that that body select its own chair.

Point nine, with respect to a transition period and the transition details, we believe that you should look to the Utilities Commission and look to the current administrators for a very detailed and comprehensive report as -- as to what

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they think should be done in the transition. The transition period should be one year, one year only. We have actually been in transition since 1994.
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The term of art transition has been --has been part of the discussion of restructuring since 1994. We strongly suggest to you that with the closure of the AB 1890 period, that we enter a new period and quit calling it transition. So we recognize the -- that there is the reality of a transition; that transition should be occurring in one year, 2001.

Point ten, with respect to the role of a public benefit corporation. We think you should seriously -- akin to the finance authority directorship, using the same methodologies, we think there's a potential role for such a corporation. We do not think that such a corporation should be tasked with being program administrator. For one thing, that will guarantee another two to four years of delay of effective implementation, in my own opinion.

However, there has been so much interest and so much talk, and I believe there is a role for another body to play in this. And I will just

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suggest several. Here again, this is dimensional
thinking as opposed to specific shoulds.
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- We might consider the role of such a

 corporation to -- to be the vehicle for the

 development of public/private partnerships.

 Although I'm nervous about that, because that will

 potentially introduce a lot of conflict

 situations, nonetheless I think it should be

 looked at.
- 10 Another role for it could be as a

 11 catalyst and a facilitator for the development of
 12 community and regional energy authorities.

13 A third role which we believe is not being addressed well at all under the current 14 15 regime would be a role of software trustee. 16 role of software and uniform software platforms is 17 going to be very central to the development of energy efficiency services. It may be that such a 18 19 corporation could serve a trustee role for -- for 20 such software. Right now it's catch as catch can, 21 and that's not workable. That is not going to 22 give us the uniform low cost transaction platforms 23 that are needed for this.

24 A fourth potential role would be that of 25 a watchdog or an advocate of sorts. The PUC has

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an office of ratepayer advocates that performs
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- that role. That role could possibly be looked to.
- 3 Again, we think you should discuss it.
- 4 We think you should recommend it. But we think
- 5 you should limit it and define it as to what it
- 6 is. And at this point, we are not supportive of
- 7 it becoming a program administrator. We do not
- 8 think it could -- it could ramp up the capacity,
- 9 nor assume the powers that are needed to collect
- 10 the information from the billing platform that is
- 11 needed, and connect it together with the types of
- 12 voucher programs that are necessary. We also
- 13 believe that the -- that the Energy Commission
- 14 itself has such a strong history, and has such a
- strong network and such a basis of communication
- to the interested parties, the affected parties
- and the customers, that it is -- it is the party
- 18 that is best suited at this point to perform that
- 19 role.
- The 11th point, which could be another
- 21 all-day session, we think you should talk about
- 22 and describe what the potential roles for
- 23 community energy authorities are. We tend to
- favor more of a regional energy authority concept,
- either at a county level or some other compact,

- 1 contiguous geographic entity.
- In the case of the larger jurisdictions
- 3 like San Diego, San Jose, San Francisco,
- 4 Sacramento, that's a different question. They
- 5 kind of take on their -- their own stature and
- 6 role.
- 7 And the 12th, I would just like to
- 8 identify the term. This is a two-day working
- 9 session. It's the concept of a public energy
- 10 management franchise operator. Put the franchise
- in quotes, because that is a legal term of art in
- 12 utility regulation. But we would -- we would like
- 13 you to think about, if you are going to go out and
- 14 contract under a public contract these kind of
- 15 macro-administrators. There's been talk of, you
- 16 know, macro-administrators for a residential
- sphere, for a non-residential sphere, for a new
- 18 construction sphere.
- 19 I strongly urge you to look at the
- 20 concept of a geographically based, what we'll call
- 21 a transition franchise, but effectively it's a
- franchise, but it's not completely exclusive, and
- I'll just make one point on that before I close.
- 24 But effectively what they would do is they would
- supervise the providers. They would be the

1 administrators that have been talked about for the 2 last three or four years. They would step in and 3 perform that role. And on the back of this page, 4 I've described an expansion -- expanded list of 5 what their potential roles can be. They would be 6 a supervisor, they would run the information 7 system, they would have the engineering capacity 8 that we think needs to be there, but we're not 9 proposing that the Energy Commission itself, you 10 know, double or triple or quadruple its size in 11 order to undertake the future of distributed 12 energy generation. 13 They would not perform installations. 14 They could perform engineering. They would fall 15 into a gray area. There's been this question of 16 17 I would suggest to you they would be in a gray 18

They could perform engineering. They would fall into a gray area. There's been this question of what's an administrator and what's an implementer. I would suggest to you they would be in a gray area where they would be performing information functions. I would suggest that up to -- there might be in the neighborhood of 15, 18 of these PEMFOs, geographically awarded within the state. They would work on common software platforms. They would work under a public contract. They would work under extended contracts. Five years should be -- should be the standard. They might

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1 start out with a three plus two, a review done
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- after three years in the first period, with pretty
- 3 much it expected that they would complete the five
- 4 year period unless there was terrible failures.
- 5 You would have a competitive basis for comparing
- 6 operators.
- 7 So, again, in closing, the PEMFOs would
- 8 not do installations. We do not believe that the
- 9 utility distribution companies are best suited to
- 10 be the PEMFOs. We believe the conflicts for them
- 11 to be decision making, distributed power
- generation, is even greater than the conflicts
- that they currently have over implementing energy
- 14 efficiency. We would even suggest that their
- affiliates within this state should not be the
- 16 PEMFOs.
- 17 But to add some spice and some
- 18 effectiveness to how these PEMFOs would operate,
- 19 let me give you one example of how the franchise
- 20 would be limited in nature.
- 21 PRESIDING MEMBER LAURIE: And then if
- 22 you could summarize your comments, Mr. Nelson. We
- 23 want to make sure that --
- 24 MR. NELSON: Certainly. I'm at --
- 25 PRESIDING MEMBER LAURIE: -- we get --

- 2 The franchise would be limited in this 3 nature, in one respect, as an example. Say there 4 were customers with multiple sites throughout the 5 state. And they have -- they have plans for doing 6 energy efficiency, they're applying for vouchers, 7 they're applying for loans, incentives, and such. 8 But they have sites spread out in more than one 9 PEMFO territory. That type of customer would have a choice of choosing their PEMFO. They could 10 11 choose -- they could choose one in any number of 12 territories. 13 So that would add a competitive edge to the PEMFOs, in terms of who they worked with, as 14 15 far as their customer base, and to -- to no small extent their -- their payments would be based --16 17 would be activity based in that respect.
- 18 Thank you very much for this time.
- 19 PRESIDING MEMBER LAURIE: Thank you, Mr.
- Nelson.
- 21 Any questions?
- Thank you, sir.
- 23 Mr. Lieberman, City of San Jose.
- 24 And we will break at noon. We'll take a
- one hour break.

MR. LIEBERMAN: I am Dan Lieberman. I'r
with the City of San Jose. I did make some
written comments, but we're expecting that a city
council member or a few may be able to sign on,
and so I think we'll refrain from submitting them
until that's been determined.

I agree with a lot of the points that have been made to date, and the interests of the local government in seeing the continuation of energy efficiency programs is -- the economics in developing a energy efficiency market in San Jose keeps dollars in the local community. It improves the environment, which has been stressed several times. It increases comfort to residents and to other building occupiers, people who work in a built environment, and it makes local businesses more competitive.

There's been a lot of discussion so far about market transformation, and I just want to take a quick step back and look at the goals that were set out in establishing these energy efficiency programs. And when I look at, for example, the mission of the CBEE, or PUC, the goals that they have in these energy programs, we're looking at the transformation of the market

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to create a mature market for energy efficiency,
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- 2 and also to create a self-sustaining market.
- 3 And I don't think that either of these
- 4 goals have been met, particularly in the
- 5 residential and small business markets. I'll let
- 6 the NAESCO, or whoever, talk about the larger
- 7 markets, but I think on the -- those two
- 8 marketplaces have not -- we haven't reached those
- 9 goals, and I don't expect them to be reached
- 10 during the time period that's established for the
- 11 current energy efficiency program.
- 12 So we do support the continuation of
- 13 these programs. And this was -- I think these --
- 14 the statement is documented well by the CBEE study
- 15 about residential attitudes towards energy
- 16 efficiency, where there's a lot of support when
- 17 people are educated about energy efficiency, but
- 18 there just simply hasn't been enough public
- 19 education.
- The role that we see for the city is one
- 21 that can help transform this market, and bring
- 22 more customer education. And to go back to the
- 23 question that was asked of Lisa Wood from San
- Diego, during her presentation, the City of San
- Jose has been selected by PG&E to start an

- innovative pilot program which I think

 demonstrates some of the abilities that local

 governments have in bringing about this needed

 market transformation.
- 5 We have been selected to do a market 6 analysis and see who has been participating in 7 these energy efficiency programs. Who is this 8 under-served market, is this a demographic, is 9 there a demographic profile that can describe this 10 market, is there a particular housing stock of 11 people who participate or who don't participate. 12 These are the types of questions that a lot of people are asking, which have not been answered. 13 So we'll first -- the first step is to do that 14 15 type of a market analysis.
- 16 The second is to look into the types of 17 services that a city or other local jurisdiction 18 can provide in tapping into these under-served 19 markets. You know, the City of San Jose, for example, we have a citywide billing system. 20 21 That's a citywide type of marketing. We can look 22 into more targeted types of relationships that we 23 have, for example, with neighborhood associations, with the chambers of commerce, with ethnic 24 25 chambers of commerce, with the local architects'

association, builders' association, building
managers' associations. Those are the types of
ties that local jurisdictions have, and we can tap
into those ties to develop the local market for
small businesses and residential markets in

6 particular.

As for other roles of local government in terms of codes and standards, that's another place where local governments can fit in. And we've been quite eager to respond to an RFP for the local government initiatives program, which was established by the CBEE and by the interim administrators. We've been waiting for that RFP. We were very excited when code standards and local government initiatives was selected as one of 14 core program areas statewide, but we've yet to see the RFP. And so I think that's an opportunity that's being lost right now that could be gained if these programs are continued in the future.

On the issue of oversight, the city's

perspective for oversight is one is a major
utility customer. Second, we've been
participating in the technical advisory committee
and have been sort of following this closely. And
thirdly, as an advocate for our residents and

businesses within the City of San Jose, San Jose constituents pay \$20 million annually into the Public Goods Charge Fund, and the City of San Jose as an institution is very interested in maximizing the benefit from this 20 million that we're paying in on behalf of ourselves, as a municipal government, and also for the residents and businesses.

And so we do support the continuation and the structure that's been proposed, for example, in SB 110, but with a few caveats which I'll list quickly, and then these will also be included in our comments when they're submitted in writing.

We want to see institutionalized local government representation on any steering committees that come out of this. We were able to finally garner a seat on the TAC, but that was after much of the process had gone by. But we very much appreciated and took advantage of the opportunity to provide whatever input we could during the development of these programs.

We want to be sure that there's adequate staff resources from the CEC, or from whoever is administering these programs, to support project

administration so there aren't any slowdowns.

We want to see a demonstration of

commitment to the local government role, as I and

the other local government representatives have

put out today, in terms of the services that we

can provide.

We want to see a demonstration of dedication to extending Public Goods Charge Funds beyond 2002. And we'd like to see -- and this is, of course, a, you know, if the world was a perfect place -- a balance of fairness with an allocation of time for meaningful input. For example, the comment period times are often very short, which makes it very difficult for a public institution to provide comment because there's a certain channel of bureaucracy, as you all know, that we have to run through. On the other hand, you don't want to have it too long, because then it delays the process. But that's the type of balance that we're looking for.

As for coordination and synergy of energy programs, we're very interested in the opportunity that the CEC will provide in bringing together energy efficiency and renewable energy programs. That's the type of program that the

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         city, as a customer, is quite interested in.
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         purchase of renewable energy from the grid, the
 3
         purchase of renewable technology, and the
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         opportunity to finance that through energy
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         efficiency, we're very interested in the types of
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         programs where that would be allowed, and also --
 7
         or would be fostered. And also, programs
         sponsored, the energy efficiency statewide
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 9
         programs that might incorporate other types of
         environmental efficiencies, such as waste
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11
         reduction, water efficiency, bringing in other
12
         types of efficiency in with energy efficiency.
13
                   Moving on to the local, regional and
14
         state issue. Most of the programs right now do
15
         not take a local approach, or -- or target
         particular local needs for energy efficiency.
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17
         Each locality has different types of climates.
         San Jose has a particular climate where certain
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19
         types of measures are -- have a shorter payback
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         and some are irrelevant. And local jurisdictions
         have a particular eye on local needs and how the
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         money can best be spent.
23
                   Each local government is going to have
         its own priorities, and the City of San Jose I
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think has a much different set of priorities and

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1 capabilities than some of the other local
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- 2 governments.
- 3 We see ourselves as being a regional
- force. We don't see the need, as Mike Messenger,
- 5 I think, had asked earlier, about a type of system
- 6 where the money would either come regionally or
- 7 statewide. We don't see the need in San Jose for
- 8 it to come regionally. That seems to us like an
- 9 additional layer of bureaucracy. But that might
- 10 work somewhere else so, you know, I wouldn't rule
- it out. But in our case, you know, we don't see
- the need for it to come through anyone regionally,
- because a lot of our operations are already
- 14 regional. We do recycled water for the whole
- South Bay. Our ultra low-flow toilet program is
- 16 -- goes beyond our city limits, and several of our
- other initiatives do not fall strictly within the
- 18 city limits, so -- even though we're operating
- 19 them.
- 20 So in sum, we'd like to see the
- 21 continuation of the work in progress. We have
- this initiative with PG&E which we would like to
- see continued. And we're willing to help in the
- 24 development of any criteria. A lot of discussion
- 25 has discussed the bang per dollar, the kilowatt

1	hour savings per dollar as one criteria for
2	evaluating energy efficiency programs. We think
3	alternative criteria should be brought in, such as
4	meeting certain sustainability criteria, the
5	indicators of sustainability may be criteria that
6	involve targeting untapped marketplaces such as
7	residential, or certain housing stock. I don't
8	know, mobile homes, or multi-family. First the
9	market analysis would need to be done to see who
LO	the target would be. But, you know, certainly
L1	alternative criteria to a simple dollar per
L2	kilowatt hour saved could be developed, at least
L3	for some programs.
L4	And that's the bulk of my comments. I'd
L5	be happy to answer any questions.
L6	PRESIDING MEMBER LAURIE: Thank you.
L7	Questions for Mr. Lieberman?
L8	Thank you, sir, very much.
L9	MR. LIEBERMAN: Thank you.
20	PRESIDING MEMBER LAURIE: Ladies and
21	gentlemen, at this point we will break until 13:00
22	hours. And we'll see you back in a few minutes.
23	(Thereupon, the luncheon recess was
24	taken.)
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1	AFTERNOON SESSION
2	PRESIDING MEMBER LAURIE: Is Mr.
3	Schiller in the audience, please? He is.
4	Good afternoon, Mr. Schiller.
5	MR. SCHILLER: Good afternoon. Thank
6	you for the opportunity to be here. I can discuss
7	the lunch menu, or now, is it better to be the
8	last person before lunch or the first person after
9	lunch, is my question.
10	PRESIDING MEMBER LAURIE: It's better to
11	be the last person before lunch.
12	(Laughter.)
13	MR. SCHILLER: There isn't a golf
14	tournament that starts in five minutes, is there?
15	PRESIDING MEMBER LAURIE: No, but I
16	think there are some legislative hearing that do.
17	MR. SCHILLER: Good afternoon, then.
18	PRESIDING MEMBER LAURIE: Good
19	afternoon.
20	MR. SCHILLER: My name is Steve
21	Schiller, and I'm the president of Schiller
22	Associates. We're a consulting firm with our
23	primary office in Oakland, and we have offices in
24	southern California and Colorado. We provide

25 consulting services to local, state, federal

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1 governments, private agencies, private companies,
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- 2 utilities, and other groups.
- With respect to the PGC programs, the
- 4 Public Good Charge programs, we're independent
- 5 administrator in Wisconsin, and we're consultants
- 6 to independent administrators in New York, out
- 7 here in California, Colorado, Texas, and soon
- 8 Oregon.
- 9 In Texas, I'm on a task force developing
- 10 the energy efficiency rule, to implement the
- 11 energy efficiency portion of their new
- deregulation bill, and in California, as we were
- 13 discussing at lunch, I have the wonderful title of
- 14 Vice Chair of the Technical Advisory Committee to
- the CBEE, which means is I get a nice title but I
- 16 really don't have to do a lot.
- 17 And lastly, just as a point of
- information, we were a unsuccessful bidder, as
- 19 everyone was, on the RFP process for independent
- 20 administration last year.
- I want to speak to a couple points.
- First, from your list, the need to continue
- 23 funding. I suspect, as everyone who's here in the
- 24 room, we believe that there's a need for the state
- 25 to continue funding based on the economic

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1 environmental benefits of energy efficiency.
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One point I want to make that might be a little different than some of the others is that 3 4 in particular with declining energy prices, which 5 will be happening, there will be an emphasis in 6 the marketplace for not conservation, but for 7 increased use. I think that's one of the things 8 that we need to keep in mind very much so, is that 9 as energy prices are coming down, which of course 10 is the primary point of deregulation, energy 11 efficiency will be less cost effective for 12 consumers, but not necessarily less cost effective 13 or valuable for society as a whole.

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And so my feeling is until the energy efficiency is put on a level playing field with consumption, you know, the inclusion of environmental and health costs and the price of energy and the removal of tax breaks and benefits for consumption and production, there will be a continuing need for public funding.

Now, with respect to the funding levels, my feeling is that we shouldn't be starting with a dollar amount, but we should be starting with goals. I think right now in the legislation that exists in 1890, it says you will spend so much

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1 money. I think that's kind of a somewhat
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- 2 misguided goal, is to say your goal is to spend a
- 3 certain amount of money. I think the goals need
- 4 to be tied to a certain level of reduction in
- 5 energy use, perhaps, like in Texas, tied to a
- 6 percentage of future growth in consumption.
- 7 So what I would do if I had the
- 8 opportunity to do so would be to say our goal is
- 9 to have a certain percent reduction in the load
- 10 growth in California associated with coming from
- 11 energy efficiency versus new supplies. And you
- 12 can set a KW or KWH level, and from that would
- 13 flow a budget, a schedule, and privatization of
- 14 different types of programs that produce results
- 15 cost effectively and demonstrably.
- With respect to the goals, I want to
- speak to something again -- and I'm sorry Mike's
- not here so he could frown at me -- is to say that
- very strongly I feel that the goal of the PGC
- funding is resource acquisition, i.e., the
- lowering of energy consumption. This has been a
- 22 goal for many years, and I think continues to be a
- valid goal. There's been much discussion of
- 24 market transformation. In fact, it's the mantra
- 25 of many. However, resource acquisition I believe

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is the goal and market transformation is the tool,
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- and you shouldn't confuse the tool with the goal.
- 3 Market transformation activities can be
- 4 very effective in certain markets and for some
- 5 technologies, but it's not a cure-all for most, if
- 6 not necessarily all, of the markets. The reasons
- 7 I say that is that the market, in my mind, will
- 8 not be sustainable anytime soon without
- 9 incentives. You know, we have to remember that
- 10 within this industry it's all very important to
- us, but we're really a hair on the tail of the
- dog, and the big dog that's moving around is
- dealing with reducing energy costs. And
- therefore, we're going to have a difficult time
- when energy costs come down to make energy
- 16 efficiency a strong and sustainable business.
- 17 I'm going to move on.
- DEPUTY DIRECTOR MATTHEWS: Maybe you can
- 19 -- I don't know if everybody appreciates the
- 20 differences between resource acquisition and
- 21 market transformation, what that means.
- MR. SCHILLER: I think that the way I
- look at it is that what we're trying to do is
- 24 simply reduce -- resource acquisition would be to
- compare getting resources from a power plant

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        versus from a demand site management program.
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        if we're looking at energy we can either increase
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        the supply from a power plant, or we can decrease
4
        the demand for it. The way I've looked at it in
5
        the past is that we balance the energy efficiency
6
        against the supply, and so instead of building
7
        another power plant, as we've been able to reduce
8
        the number of those being built in California
9
        through demand site management.
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I still look at that as a primary objective here. If we can make the cost of obtaining the kilowatt hour or KW to be the same or less than for building that power plant, then it's an equivalent to building a power plant, if not better, because of the environmental and other benefits associated with that.

Now, with respect to market transformation, there's many definitions for that.

But essentially I think they all revolve around coming up with changes in the marketplace that allow energy efficiency to be there without the incentives. And that that be a sustainable and long term solution to that.

Now, doing that through various types of programs, such as education programs and such, can

1 be effective. Bringing out emerging technologies,

- 2 as I think Ed was speaking to earlier, can be very
- 3 good things. But in certain areas, also as the
- 4 gentleman from the lighting contractors was
- 5 talking to, we essentially need to do something to
- 6 balance the, you know, reduce the cost associated
- 7 with those measures, and that's through
- 8 incentives.
- 9 The classic method we've used in the
- 10 past, and if you talk to the people in the private
- sector, they're going to very much continually
- strive to say we need incentives, whether that be
- through rebates or standard performance
- contracting programs, versus coming up with
- 15 various programs that are developed, you know, by
- the government to help make the market work
- 17 better. And for some of us there is somewhat of a
- 18 contradiction in saying the government can figure
- 19 out how the market does better.
- Does that help a little bit? Not being
- 21 too much of a speech there. Okay.
- 22 Let's see here. And I want to speak to
- another one which was timing, which I don't think
- has been brought up. I think only one person
- 25 talked about the importance of having really no

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         hiatus rule, is the way I define it. We've been
 2
         going through a lot of changes with administration
         and the Public Goods Charge, and the various forms
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 4
         of energy efficiency programs for quite a few
 5
         years. I think starting with the first energy
 6
         efficiency working group in '94 and '95 --
 7
         actually had a full head of hair when I started
 8
         the process. There's just been a lot of
 9
         confusion. And so what I'd suggest when you're
10
         doing this work is that you include a
11
         consideration to not have a hiatus, so that you do
12
         a transition, that something is done smoothly and
13
         well informed so that the market can continue
14
         without having a stop/start, stop/start type
15
         approach.
16
                   One of the things to do this is -- is to
17
         look at multiple year funding. And also to use
         realism in your estimates for how long it would
18
19
         take to actually put new systems in place. I
20
         think there's been a lot of over-optimism in the
         timeframes established for how quickly we can move
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22
         forward, and often there's no consequences for the
23
         people developing those schedules if we don't move
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forward at that rate. And so that's a grave

if you tell us the rules, we can play the game,

- 2 but if the rules change or we don't know what
- 3 those rules are, we can't play the game.
- 4 And the last thing I wanted to talk to
- was the administrative options. There's quite a
- few that have been discussed, and I want to talk
- 7 about three of them, independent administration,
- 8 the CEC, and non-profits.
- 9 As I mentioned before, we were a
- 10 potential bidder, or bidder, depending on your
- point of view, of the RFP process for the
- 12 independent administration. Now, I believe that
- that can still be a very powerful administrative
- 14 mechanism, to use private companies to administer
- 15 those funds.
- 16 First of all, we're talking a lot about
- 17 having solutions within the private markets. I
- think that private companies are in the best
- 19 position to address what happens in the private
- 20 markets. I think if you provide financial
- 21 incentives, that really can be tied to results,
- 22 not just the process. And I think we've been
- 23 spending a lot of time on the process and not
- 24 necessarily on the results. And I know sometimes
- some people think of it as being sinful or evil,

or whatever, but if you basically give someone an incentive to do the right thing to generate

3 results, you can be -- results.

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4 And just for those who are concerned 5 about we tried that and it didn't work, I think 6 that there was two things that can be fixed 7 associated with the last process. One, frankly, I 8 thought there was a lack of leadership. 9 really wasn't entities or individuals who were 10 saying we're going to make this happen. We just 11 kept having roadblocks and roadblocks, and I think 12 that could've been dealt with if someone or 13 somebody stood up and said we will make this 14 happen.

And secondly, just a sort of real simple thing, there was an RFP process established for that, versus an RFQ process. Essentially, the RFP said fix a cost to something we can't define. It was an undefined scope and they were looking for a fixed price. An RFQ could solve that.

With respect to the CEC, I think the CEC
has several major advantages as a potential
administrator. It's really safe for me to say
that as I stand in front of all of you here. And
I think those are essentially that, one, you have

1	the staff, which has been an issue with the
2	Utilities Commission. Secondly, you have staff
3	with knowledge. And lastly, and probably most
4	importantly, you have the staff and Commissioners
5	who actually care. And I really can't over-
6	emphasize how important that is, that there's a
7	group that's responsible for the administration
8	that cares that this stuff will happen.
9	We worked for state agencies in New York
10	and Wisconsin in these Public Good Charge type
11	programs, and we've seen the strengths of this
12	approach. I think it can be very effective.
13	However, hopefully I can provide some constructive
14	suggestions to my friends and colleagues about
15	what things I'd say it might be beneficial to
16	change at the Energy Commission.
17	One is that the Energy Commission almost
18	by definition doesn't have a customer connection.
19	You don't have the experience working directly
20	with customers, which is a major advantage of the
21	utilities. That's something that might be able to
22	resolve by working with private sector companies,

or perhaps with the utilities in some manner. Secondly, in my opinion, government

agencies tend to be rewarded for completing a

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1 process, not necessarily for generating results.
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- 2 So sometimes we see delays that are quite endemic
- 3 to the system.
- 4 And lastly, as a former and continuing
- 5 contractor to the Energy Commission, I ask you
- 6 very much so to overhaul your procurement and your
- 7 administrative process for contracts. We've had
- 8 situations where we've been called up and said
- 9 congratulations, you've been awarded a contract,
- 10 and two years later we receive the contract in the
- 11 mail. And that doesn't -- two years taken up with
- 12 negotiation, that's two years between we get the
- phone call and we see that contract in the mail.
- 14 So I think those are three areas that I
- think if you could work out it would make you even
- stronger as potential administrator.
- 17 And lastly, as -- with respect to the
- non-profit, there's those that see that as a
- 19 panacea, not the corruption of the private sector
- 20 and without the politics and bureaucracy of state
- agencies. But to me, it's just the opposite.
- 22 You're going to have no clear incentives for that
- 23 non-profit to produce results, and yet you're
- 24 still going to have the politics and bureaucracy
- of a new agency. And for those of us who have

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been involved with this for a while, we don't
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- 2 really see that there's going to be this new
- 3 agency created that's going to be also a wonder
- 4 without difficulties.
- We already have a number of California
- 6 agencies and bureaucracies. I really don't think
- 7 we need another one to handle the Public Goods
- 8 Charge administration.
- 9 So with that, thank you very much.
- 10 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 11 Schiller.
- 12 Ouestions?
- Thank you, sir, very much.
- MR. SCHILLER: Thank you.
- 15 PRESIDING MEMBER LAURIE: Being the
- 16 first speaker after lunch isn't nearly as bad as
- 17 being the second speaker after lunch. Gary
- 18 Nelson. I'm sorry, that's right, Guy Nelson.
- MR. NELSON: Commissioners, staff,
- 20 audience. You know, I filled out the wrong card
- is what happened, but -- but I do feel compelled
- to speak.
- 23 (Laughter.)
- MR. NELSON: Just to reiterate, there's
- a lot of good ideas that you've heard today, and

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1	if I could address a couple of points that you
2	might want to consider in the strategic plan, if
3	that is the direction you decide to go.

There's a number of non-energy efficiency benefits to be considered in employing energy efficiency. And among them are safety, health, comfort, and productivity. And if that's a -- I would suggest that you include those as benefits of -- of -- in the strategic plan, assessing those benefits along with the benefits of energy efficiency.

And then also, perhaps to help out the local communities, perhaps work with them on a sustaining effort to install as part of the building permitting process a way to encourage the building going in, and the birth of the building, along with how the building is used and finally decommissioned, and what to do with recycling the materials within that building.

And perhaps also in the permitting process have a fee rebate kind of process where you actually can reward the -- the building owner for orienting the building correctly, using the right materials, and installing the right equipment in it so that it does operate during the

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1 life cycle of the building in a -- in a good cost
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- 2 effective manner.
- Those are my thoughts.
- 4 DEPUTY DIRECTOR MATTHEWS: Guy, you
- 5 might explain who you are for those of us that
- 6 don't --
- 7 MR. NELSON: Oh, I'm sorry. I'm sorry.
- 8 I'm Guy Nelson, with the Utility Energy Forum.
- 9 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 10 Nelson.
- 11 Ouestions?
- 12 Thank you, sir, very much.
- Tyler Bradshaw, please.
- 14 MR. BRADSHAW: Good afternoon. My name
- is Tyler Bradshaw. I work for FAFCO in Redwood
- 16 City, with Ramona Resource Manufacturer. I am not
- 17 here today representing FAFCO, I'm representing
- 18 ARI and the Thermal Energy Storage Technical
- 19 Committee.
- I wanted to speak about that you have
- 21 two reports coming up. One is the Transition
- 22 Report, the other is the Operational Plan Report.
- 23 And according to a short summary that I gleaned
- from your Website, one of the items that this
- 25 report is going to -- report's going to consider

1 is whether eligibility for program funds should be

- 2 expanded to support the ability of electricity
- 3 consumers to shift electricity usage in response
- 4 to pricing differences.
- 5 And I also wanted to bring up a report
- 6 that was published by the CEC. I was -- I'm a
- 7 little surprised that -- in fact, before the first
- 8 speaker after lunch, that was the first time I've
- 9 heard of demand type management even mentioned. I
- 10 think it's pretty important for energy efficiency.
- 11 And the report clearly points it out. I wanted to
- 12 point out a couple of things that were brought up
- on the conclusions page of that report. Since
- it's your own, I'm sure it's -- each of you can
- get a copy of that.
- 16 TES provides major compelling benefits
- 17 to concern to the CEC. One is energy efficiency
- 18 to both -- not only to a source, but to site. The
- other is environmental, which is air emission
- 20 savings and CFC savings. The other is economic
- 21 development and competitiveness, increased
- 22 competitiveness of CEC suppliers and users.
- 23 Some of the possible action items that
- 24 were presented in the report. One, make TES a
- 25 priority demand side management technology in

1 energy policy decisions. Two, modify California's

- 2 Title 4 building standards to reflect TES savings
- and peak demand savings. Three, use TES as an air
- 4 emissions control measure statewide. And four,
- 5 identify TES as a priority option for new and
- 6 replacement cooling systems in competitive energy
- 7 environmental partnerships with -- excuse me, with
- 8 key energy users such as, one, state, local,
- 9 federal government buildings; and two, businesses
- 10 striving to be environmental leaders as in the
- 11 EPA's Energy Star program.
- 12 And lastly, I wanted to just read the
- last paragraph of the report, which is, in
- summary, the CEC Commission initially believed,
- and the study confirms, that TES is an energy --
- 16 excuse me -- is a, quote, energy technology
- offering compelling energy, environmental
- diversity and economic development benefits to
- 19 California, unquote.
- 20 Moreover, TES is now posed for full
- 21 commercialization, institutional policies such as
- 22 those that have been previously identified can be
- 23 pursued to, quote, effectively increase the market
- penetration, unquote, of TES as the CEC desires.
- I just wanted to bring that out because

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1 I, in reading about what was going to be brought
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- 2 up in the reports, I don't see any wording for
- demand side management, and I hope that that was
- 4 something that wasn't going to be overlooked and
- 5 something that CEC was going to look into. I know
- 6 there's a lot of -- certainly I'm here as a
- 7 thermal source manufacturer, and you might think
- 8 that -- that my opinion's going to be a little bit
- 9 biased. That's why I wanted to read from your own
- 10 report.
- 11 And sure, there's other technologies,
- such as lighting, that deserve credit, and
- 13 certainly need to be looked at for deciding if
- money's going to be spent for incentives in that
- 15 area. But I didn't want thermal energy source to
- be overlooked, because it's very important. I
- 17 think the report points it out, and I just wanted
- it to get its due consideration.
- 19 That's the end of my comments. Any
- 20 questions?
- 21 MR. ABELSON: Just one comment, Mr.
- 22 Bradshaw. Could you identify for the record the
- 23 actual report that you're citing?
- 24 MR. BRADSHAW: Yes, I can. The PUB
- 25 Number is P50-95-005.

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1 MR. MESSENGER: And the name of the
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- 2 report?
- 3 MR. BRADSHAW: The name of the report is
- 4 "Source Energy and Environmental Impacts of
- 5 Thermal Energy Storage." The report is published
- 6 -- was put out in '96, so I don't think it's out
- 7 of date. It's still a very recent report.
- 8 Thank you for your time.
- 9 PRESIDING MEMBER LAURIE: Thank you,
- 10 sir.
- Mr. Berman, Mark Berman.
- 12 MR. BERMAN: Yes. I'm Mark Berman with
- the Davis Energy Group. And thank you,
- 14 Commissioners, staff, and audience.
- 15 For one, I would like to offer my
- 16 appreciation and -- and thanks to the Energy
- 17 Commission for having this forum. I know it takes
- 18 a lot of fortitude and patience to listen as
- 19 people put forward their opinions and impressions,
- and I, for one, appreciate that. I think it's
- 21 needed.
- 22 A number of comments. One is on the
- issue of whether or not energy efficiency funding
- and market transformation funding needs to
- 25 continue. And I think there is clearly an ongoing

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role for that. As long as innovative minds are
going to continue to come up with better ways to
provide comfort, better ways to heat and cool and
light buildings, better ways to design them, then
we're going to need ways to get these better ideas
into the marketplace.
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The construction industry, in my humble opinion, is fairly staid. They do a good job of what they do, and in my experience there's a reluctance on the part of many of them -- not all, but many of them -- to make changes. And maybe that's for good economic reasons, maybe not. It doesn't matter. There are inducements and market transformation programs, or whatever we want to call them, that are necessary to get new technologies into the mainstream. And that beats the heck out of just making regulatory changes that make people have to do things. It's much better, I think, to have these kinds of programs.

So what I'm saying is yes, there needs to be a continued funding level for market

transformation, I think at current levels, plus inflation, and I think that will provide good benefits, economic benefits over time.

With regard to who administers energy

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         efficiency programs. There's been a lot of
 2
         discussion about that. At Davis Energy Group we
         have done contracting with utilities. We've done
 3
 4
         a lot of contracting with Pacific Gas and Electric
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         in this arena, we've done, as many of you know, a
 6
         lot of contracting with the Energy Commission, and
 7
         we've been able to work well with both. I think
         there are a wide variety of entities that are
 8
 9
         capable of administering these programs, but I
10
         think whoever's chosen to administer them, there
11
         are certain -- certain basics that need to be
12
         there.
13
                   One is there needs to be flexibility,
14
         perhaps more flexibility in the contracting
15
         process that -- than current state law allows.
16
         there may need to be either legislative changes,
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         or it may be that the entity that's chosen needs
         to be one that has more leeway under current law.
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19
                   For example, a gentleman, one or two
         speakers ago, mentioned the lag time that can
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21
         exist from being told yes, you have a contract
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with a state agency, the Energy Commission as an example, and having that contract be up and running. We've experienced 15 month lag times. And that's unnecessary. I think there needs to be

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ways to be found to get around it. It's also
inefficient.
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3	There also needs to be a give and take,
4	and I think this is also perhaps a matter of
5	contracting law. The administrator needs to be
6	able to go to the entities that are running the
7	programs and designing the programs and say, you
8	know, we like your proposal. However, could you
9	change this, could you consider working with so
10	and so. There needs to be the ability to have
11	some negotiation and some back and forth. And I
12	know the the Energy Commission is getting ready
13	to work with negotiated contracts in the near
14	future. That's the kind of thing that will be
15	needed.

Let's see. There needs to be a mechanism for third parties to come up with designs and programs, so that it's not all top down. And this kind of mechanism is excellent to get input and then design a program, but there also needs to be like third party initiatives, the ability for an outside entity to say we've got a good idea, compare it with somebody else's good idea, pick the one you like best.

And then another item that I think is

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1 important is ultimately coordination with Title
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- 2 24. Because, for example, with T-8 lamps as an
- 3 example. There comes a point at which a
- 4 technology becomes so good and is on the verge of
- 5 being so pervasive that it makes sense to go to
- 6 the next step and just say okay, this one is
- 7 clearly so much better that in anything new that
- 8 gets built you've got to build it this way. So
- 9 there's a kind of a pipeline from RD&D through
- 10 market transformation through acceptance in the
- 11 marketplace, and ultimately to the building code.
- 12 Finally, I'd like to underscore the
- comments that Ed Vine from the University of
- 14 California made about emerging technologies.
- Right now there is a gap, in my opinion, between
- the PIER program and the market transformation
- work that's done. And the market transformation
- 18 work is emphasizing proven technologies to a good
- 19 extent, and to a lesser extent emerging
- 20 technologies. I know this year there's more of an
- 21 emphasis being placed on having the utilities tell
- the Energy Efficiency Board what they're doing
- with emerging technologies. I think that emphasis
- 24 needs to grow.
- I think that emerging technologies can

1 really make a big difference. We're not always

- 2 sure which ones are going to make the difference,
- 3 but unless there is a conscious effort to get them
- 4 in the -- in the marketplace and emphasize them,
- 5 and have programs that are technology specific to
- 6 get them going, they can get lost.
- 7 So I would like to suggest that in the
- 8 January 1 report that is due, I realize you can't
- 9 put a strategic plan together for emerging
- 10 technologies, but perhaps some guidelines, perhaps
- 11 a chapter that begins to think about a strategic
- 12 plan for emerging technologies would make some
- sense in the upcoming report.
- And that's the extent of my comments.
- 15 Thank you.
- 16 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 17 Berman.
- 18 Questions?
- I think the reference to the CEC's
- 20 contracting process is a -- certainly a valid
- 21 issue. Before the PIER solicitation -- well, PIER
- 22 had its first solicitation, some months were spent
- in attempting to streamline the basic terms and
- 24 conditions. We then find out that part of the
- 25 process remains that the contract is approved, but

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1 then substantial time goes by in working out the
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- work product.
- Well, my understanding has always been
- 4 that a contract is a contract is a contract. If
- 5 you want to modify the contract, you can come back
- and modify the contract, but if you do then you
- 7 have to come back to the Commission and get
- 8 reapproval. So there's a process that we go
- 9 through of approving standard terms and
- 10 conditions, and then negotiating the deal is
- 11 unacceptable. And that is changing, and that will
- 12 continue to change.
- MR. BERMAN: And I've had the other
- 14 experience with the Energy Commission, where they
- said here's your proposal, we're putting it behind
- 16 our standard terms and conditions, sign here. And
- that worked really well.
- 18 PRESIDING MEMBER LAURIE: That is my
- 19 understanding of how it was supposed to be. Thank
- you, Mr. Berman.
- 21 I'm sorry. Mike, did you have a
- 22 question?
- MR. MESSENGER: My question was related
- 24 to your comment. Do you know if there's -- is
- 25 there anything that we can do besides what we've

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1 already tried to do, in terms of streamlining,
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- 2 that from your perspective would be good to, you
- 3 know, a different kind of contract, different
- 4 forms of review, more delegation of powers and
- 5 authorities. Do you have any ideas about how to
- 6 do that?
- 7 MR. BERMAN: Well, the one thing that
- 8 might be done would be to put a line or a notice
- 9 in the Request for Proposals that the work
- 10 statement in the RFP will be part of the contract
- and that will be the work statement of the
- 12 contract. And perhaps to say that your proposal
- or portions of it will be. I think it might be
- better to stick with the work statement.
- 15 And then when the winner is chosen, just
- do that. Take the work statement, put it behind
- the standard conditions, and that's it. Done.
- 18 PRESIDING MEMBER LAURIE: Thank you,
- 19 sir, very much.
- 20 Should we try Gary Matteson from UC
- 21 again.
- 22 Loren Lutzenhiser, from Washington
- 23 State.
- 24 MR. LUTZENHISER: Thanks. I'm Loren
- 25 Lutzenhiser from Washington State University. I'm

1 a sociologist, also a UC Davis graduate, which is
2 how I got into this. I've been studying energy

3 policy, energy efficiency programs for about the

4 last 15 years, and continue to collaborate with

5 folks at Davis and Berkeley and CIEE, looking at

6 these kinds of issues.

We've done -- we're now completing a series of scoping studies looking at particular markets that might be candidates for transformation, asking questions about whether we know enough about those markets to advise a group like the CEC to be able to move intelligently int hose areas. The markets that we selected in cooperation with CEC staff for this investigation were commercial buildings, residential new construction, lighting, and advanced metering consumer friendly billing. And the first report in that series has been issued.

CIEE is in fact funding more advanced research now to take a look at the commercial buildings market to try to determine under what circumstances innovation does occur, and what parts -- what subsectors of the market, what the design negotiation looks like, and how that produces buildings of vastly different energy

characteristics, even under fairly restrictive
code regimes.

The reports in the other areas will be

out in the next couple of months, and I'd like

very much to supply those to the Commission as

well, for you to consider in your deliberations.

As a social scientist, I've been particularly interested in looking at how energy efficiency programs have been designed and what their histories are, and particularly to try to understand how things that have to do with humans are taken into account in these programs, which have tended to be hardware focused and subsidy oriented. Having to do with marginal cost acquisition of increments of supply.

And in fact, critical success factors

for programs such as consumer motivations and

behavior and choice, the processes by which

technologies are socially shaped, producer

resistance to innovation, institutional market

based impediments to energy efficiency, and the

weakness of conventional policy models to really

informed intervention is very well, it has always

been puzzling to me. Because, in fact, our

understanding of consumers, we've talked about the

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importance of consumer education, or a producer's
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- 2 willingness to innovate has been critical. And we
- 3 haven't understood that very well. So that's
- 4 something that's a mystery to me that I'm trying
- 5 to understand.
- 6 Another mystery to me is how so many
- 7 states could have taken on this notion of market
- 8 transformation, which is a seemingly radical
- 9 proposal, and a fairly radical departure, if you
- 10 want to think about it that way, from sort of
- 11 standard DSM business as usual, adopted fairly
- 12 unreflectedly by the Public Utilities Commissions
- across the country. And now groups like the
- 14 Commission and the Commission staff are faced with
- 15 the problem of trying to sort out what exactly
- 16 this might consist of.
- 17 So that's another thing I'm quite
- interested in. And when I get the answer to that
- 19 I'll pass it along. I don't have it yet.
- 20 (Laughter.)
- 21 MR. LUTZENHISER: But it raises an
- interesting question, because what is it that we
- 23 really do know about markets. And I have a
- 24 document that I know Commission staff is familiar
- with, that I'll pass along.

1	The Energy Center at Wisconsin solicited
2	comments from myself and ten or twelve other
3	folks, include market specialists with
4	manufacturing firms, business professors, people
5	who study markets for a living, people with strong
6	backgrounds in DSM, and posed a series of
7	questions about market transformation. How should
8	it be defined; under what conditions can it work;
9	how should it program interventions be
10	structured; can they be evaluated; is there such a
11	thing as an exit strategy, and so on.
12	And they got predictably, I think, ten
13	or twelve different answers to each of these
14	questions, but they've assembled them in a nice
15	way. And I think that there is some fair some
16	fair agreement here that, in fact, frequently we
17	don't know very much about the markets that we're
18	talking intervening in. And that the claims that
19	have been made for market transformation have been
20	extremely strong, and quite possibly exaggerated.
21	So I'm going to try to enter that, or
22	I'll give that to you, that can be entered into
23	the process for you to consider, because I think
24	some insights in there are particularly important,
25	and caution, I think, about going in a very

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deliberative kind of way in this.
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- I have several points that I want to sort of make and toss out, and I won't elaborate 3 4 on them. It's something we can discuss, and some 5 of these may be provocative, but I'll get them out 6 nonetheless, because I -- one of my roles here is 7 to try to get, I think, some big ideas on the 8 table, or to raise some general questions about 9 this enterprise that we're up to here and in the Northwest, and the rest of the U.S. Because I 10 11 think that market transformation from the point of 12 view of the scientific community is how the U.S. 13 is now going to attempt to respond to issues like 14 global environmental change and -- and 15 implementing Kyoto, and so on. Taxes are off the 16 table, regulations are off the table, lifestyle 17 changes are off the table. What we have here is market transformation. This is where the action 18 19 is. 20 So here are a few points that come from 21 my years of looking at this system and thinking as 22 deeply as I could about market transformation, and 23 looking at the specific markets with CIEE and CEC
- 25 Conventional energy system thinking, and

over the last four years.

	<pre>1 I don't characterize everybe</pre>	ody in the energy
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- 2 system this way, or the CEC staff, necessarily.
- 3 We're trying to think in very creative and useful
- 4 and broadened ways, I think. But conventional
- 5 thinking about energy and technology and consumer
- 6 and producer choice and market systems is very
- 7 narrow, mechanistic, and I think is often
- 8 misleading.
- 9 Despite a number of successful
- 10 subsidized DSM interventions in the past,
- 11 efficiency programs have been based on a very
- 12 limited understanding of humans, technologies, and
- 13 markets, and as a consequence have very rarely had
- lasting market effects. And I think we can all
- think of the exceptions here, and we've heard of
- 16 some of those.
- 17 But in general, the transformative
- impacts of DSM I think have been modest,
- 19 particularly if we look at the growth of
- 20 consumption curves for the U.S. as a whole, or as
- 21 individual states and -- and regions.
- We did have a good deal of social
- 23 science research on consumer behavior and
- 24 technology choice, and community level processes
- 25 related to energy use that took place in the early

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         1980's. And a number of interventions were well
 2
         informed by that work at the time. With the
         advent of DSM, however, that research basically
 3
 4
         dried up and disappeared. And there's -- there
 5
         are good policy reasons for that, because given a
 6
         logic of sort of incremental acquisition of
 7
         marginal sources of supply with subsidy, you don't
 8
         really have to know very much about what's
 9
         motivating people. You know, if you wave some
         money in front of them they'll take it for one
10
11
         technology or another. You can get some real
12
         gains that are measurable in a program evaluation
13
         impact context, but you don't have to know much
14
         about the process and why it worked and why it
15
         didn't. So as a consequence, the knowledge base
16
         that we have is fairly old, although I think
17
         fairly good.
18
                   Under a market transformation policy
19
         regime, a really thorough knowledge of consumers
20
         and producers and market systems will be crucial,
         I think, for planning, executing, evaluating
21
22
         successful interventions and sorting out the ones
23
         that aren't successful and trying to understand
24
         why.
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25 Our current knowledge of key markets in

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1 which transformation might take place, such as the
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- ones we're looking at in buildings, appliances,
- and so on, is quite limited. If we take a look at
- 4 the scientific literatures that apply in the area,
- 5 we find that there's relatively little there.
- 6 Although it can be usefully brought together, I
- 7 think, but it's spread across a variety of
- 8 disciplines. I'll say a bit about that in a
- 9 minute.
- 10 I think it's likely to be -- I'll throw
- this out as something that I can't substantiate,
- 12 but I think it's likely to be, my hunch, very
- difficult to convert DSM programs, as effective as
- they might be in a DSM context, into market
- 15 transformation programs. This something we're
- seeing across the board. Our folks who have done
- 17 a good job at -- at marginal cost avoidance
- 18 programs in the past, asserting that those
- 19 programs now will be market transformative in some
- 20 fashion. Or they've -- always have been market
- 21 transforming.
- I think there's questions about where
- 23 travel down that road will actually lead. I
- 24 believe that a new sort of theory based approach,
- and that's been mentioned several times today, is

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         much more promising, one in which interventions
 2
         are based on plausible program theories and market
         assessments, and we've heard about the importance
 3
 4
         of those to try to figure out what's really there,
 5
         and employ real time evaluation with ongoing
 6
         program adaptation as opposed to the up or down
 7
         sort of view that we heard about earlier. And
 8
         then, in fact, conduct strategic market
 9
         transformation research to provide missing
10
         information on market structure and function.
11
                   This is not laying the basis for top
12
         down programs. This, I think, when I say a theory
13
         based approach, and there's a paper that I'll also
14
         supply on this, done by Carl Bloomstein at UC, and
15
         Sy Goldstone of the Commission, and myself,
16
         calling for a theory based approach. What we're
17
         simply saying here is that we have to have
         sufficient knowledge of how a market plausibly
18
19
         might work before we can even start to think about
20
         crafting intervention, regardless of whether
21
         that's evaluating something that's bubbling up
22
         from the bottom, regardless of supporting
23
         something that's ongoing in the market, or
         whatever. This is not a design for a sort of top
24
25
         down approach.
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1
                   The knowledge that we really need to do
 2
         this is, in fact, greatly dispersed across
         scientific disciplines and applied areas, and
 3
 4
         interdisciplinary perspectives are necessary to
 5
         pull this stuff together.
 б
                   Unfortunately, that knowledge base is
 7
         pretty well divorced also from the institutional
 8
         knowledge that we draw on, that comes out of DSM.
 9
         That knowledge, and there are a lot of people
10
         who've been doing DSM who know a lot about
11
         markets, I think, but it resides largely in the
12
         heads of individuals. It's buried in evaluation
         reports and gray literatures that we don't have
13
14
         any way to really evaluate or assess or access in
15
         any way. Of course, they're proprietary knowledge
         of consultants. Also, the utility system has
16
17
         periodically gone through downsizing and
         reorganization and loss of institutional memory.
18
19
         So that the institutional basis of knowledge of
         how markets work is in some ways scattered, in
20
21
         some senses lost, certainly not coherent.
22
                   So finally, we believe that -- anyhow,
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22 So finally, we believe that -- anyhow,
23 when I say "we", the group of folks in the
24 universities who actually do this kind of work, we
25 spread across the globe. I mean, this tie to the

community is relatively small now, but people are
doing quite interesting work in Europe and other
parts of the U.S. That group has to be brought
together with -- with market actors, with
technologists, with government program planners
and policy makers, in order to support workable
approaches to market transformation that will

I'll be happy to supply my remarks, and these other supporting materials that I think might be of use to the Commission as it goes through the process.

actually work in this kind of an arrangement.

MR. WILSON: This morning Michael Parti talked about evaluation and the importance of feedback groups. Is that the same thing as you're calling the theory based market transformation --

MR. LUTZENHISER: It's a piece of the theory based approach, and again, that paper is available here. But certainly yeah, it's a piece of it. The theory based approach also approaches — and some of this work, I work also with the Northwest Alliance a bit, and while it's less systematic there, Tom Eckman, who's one of their leading venture designers, and the Northwest Alliance is something we should kind of talk

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about, too. I think it's a different situation.
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- 2 It's an interesting and useful model for the CEC,
- 3 but it's basically a set of private ventures,
- 4 operating with utility funds, and Bonneville's in
- 5 that, but Bonneville is not really acting
- 6 necessarily as a government agency in that case.
- 7 So they pursue ventures that they are --
- 8 you have to be based on a good story, and he says
- 9 a really, really good story is what we want to see
- 10 before we find an intervention in the market about
- 11 how the market works. Who the players are, what
- 12 the institutional context are; what are the
- regulations; what is the nature of the incentives;
- 14 what sort of innovation is taking place there now;
- who are the players, and so on and so forth.
- 16 Based on that good story, some of which
- 17 comes from program experience, some of which comes
- from market actors, some of which comes from
- 19 scientific literatures that are thin but apply,
- 20 you can make a judgment about what an intervention
- 21 or a series of interventions might look like in
- that market. And then attempt to pilot those in
- our model, to pilot them to see -- sort of work
- 24 the kinks out, see what's going to work, see if it
- works the way you expected. Evaluate it in real

1 time intensely. But in the course of this you may

- 2 discover that you're running into phenomena and
- 3 processes, and the Irvine study that the
- 4 Commission did, I think, is a nice sort of case
- 5 study or model of how this can work.
- 6 You may discover processes that are
- 7 going on there that you don't really understand
- 8 well enough to make the necessary program
- 9 adjustments. And that means you need to go back
- 10 to the theory and you may actually have to
- 11 commission some research. It doesn't have to be
- 12 lengthy or -- or painfully detailed, but some
- serious, on the ground research on market
- 14 structure and function at that point, to try to
- 15 better inform the intervention.
- 16 So it's another process of action in and
- around the market. The players don't have to be
- government agents. They shouldn't be. I mean,
- 19 that should be done by market actors. But the
- 20 kind of things we should be looking for are things
- that we're not going to really understand or
- 22 predict, necessarily, until we actually get out
- 23 there to find out what are the -- what are the
- 24 barriers people bump up against, the real -- the
- impediments that they're encountering.

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1 Institutional arrangements, the codes, the laws,
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- 2 the customs and practices in the profession. The
- 3 networks.
- 4 And the one thing I do in my research
- 5 that I'm very impressed with is the way that
- 6 markets and supply chains don't innovate because
- 7 of network relations between -- say, take in the
- 8 residential construction industry. I order for
- 9 innovation to make its way into that industry, it
- 10 has to have the cooperation of -- of a number of
- 11 buyers and sellers who are moving the good from
- 12 the producer to the -- to the ultimate builder,
- and so on. It goes through chains of
- 14 intermediaries who get to sift and sort and decide
- what's going to come out onto the market on offer,
- what price, and so on and so forth.
- 17 And in that industry, it's important to
- try to develop stable relations with suppliers,
- 19 particularly when you're in an uncertain
- 20 situation, as demands for scarce materials and
- 21 time constraints and growing markets. So you end
- 22 up settling on these predictable sources of supply
- 23 and predictable suppliers and all these network
- 24 relations.
- 25 Well, okay. That's the case where

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1
         theory would sort of tell you you should be
 2
         looking for those kind of things. You get out
 3
         there and you start finding that some of those are
 4
         working in ways that you can use, or -- or ways
 5
         that can pick up an efficient technology and move
 6
         it along. Others are working at cross purposes to
 7
         that. And so you use evaluation hopefully to
 8
         refine your approach, but also you may have to do
 9
         some original research to really try to find out
10
         how it worked better in one context than another.
11
                   One thing we talked about, take a look
12
         at the Building America program that's working
         across the country, and figure out where it's
13
14
         making a change in industry practice and where
15
         it's not. So that's something that we couldn't
16
         learn by looking at an intervention in San Jose,
17
         for example. But it's a -- it's a track of
18
         knowledge development that's important as a part
19
         of that whole package.
20
                   So, yeah, the feedback is part of it.
21
         But it's much more than that. It's much more than
22
         standard process evaluation or -- or even improved
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process evaluation and feedback.

MR. WILSON: Well, I think one of the

challenges of this report is going to be to

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distill this in a way that the Legislature can
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- 2 understand, because they're the real audience for
- 3 the report that we're working on. The people in
- 4 this room are a community of people who have been
- 5 working on this stuff intensively for -- for
- 6 probably decades, at least years. And somehow we
- 7 need to take what we've learned and write it in a
- 8 way that -- I mean, I wouldn't want to use theory
- 9 based market transformation to the Legislature.
- MR. LUTZENHISER: Right.
- MR. WILSON: Try to avoid the use of the
- 12 word.
- 13 MR. LUTZENHISER: Well, it should be
- something better than a good story, too, though,
- 15 to give it the sense that in fact a good theory is
- 16 a good story. You know, as someone once said,
- 17 there's nothing better than a good theory, you
- 18 know, as far as -- as far as something to help you
- 19 sort out what you should do.
- 20 But I agree. I mean, it has to be -- it
- 21 has to be intelligible. The idea that we're
- trying to communicate here is that there are
- 23 better ways to do it than sort of government
- bulling into a market and potentially doing more
- harm than good. Or, on the other hand, simply

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loosening all of the -- all of the actors whose
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- 2 products and competencies grew up under DSM, and
- 3 funding them to do whatever it is they do, and
- 4 then call whatever comes out of it market
- 5 transformation.
- 6 That's perfectly okay. And as a policy
- 7 approach that might be quite efficient. And it
- 8 will produce marginal energy gains. It will
- 9 probably not transform markets, if by that we mean
- 10 to change this sort of underlying structure and
- 11 function of the market so that energy efficiency
- is not disadvantaged the way that it is now.
- MR. WILSON: Well, I think there is a
- 14 really exciting story here to tell. It's going to
- 15 be an interesting challenge to write it up in a
- 16 way that is accessible to people. The -- been
- working on a memo for several weeks, and it's
- 18 really exciting stuff to read. I mean, I haven't
- 19 been deeply involved in this stuff in recent
- 20 years, but I think we can write a really positive
- and convincing story for these programs. But it
- has to be something, again, written, that's going
- to be understandable to the Legislature, and we'll
- 24 want them to want to do something legislatively
- 25 early next year.

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                   MR. MESSENGER: I have just a related
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         question. It has to do with audiences, perhaps.
                   Let's assume that the Commission takes
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         as a given that we want to move towards the theory
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         based approach. My threshold question is do we
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         even need to put this -- either of these reports,
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         or could we just simply say later on, when we
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         select administrators we're going to require a
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         theory based approach to evaluation.
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                   And so the threshold question I want you
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         to think about is do we need to put all of this
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         fairly technical discussion into a report. And
         then secondly, if you think so, what level of
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         detail do you think is necessary?
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                   MR. LUTZENHISER: I'm not sure that --
         well, I think there's advantages to having it in
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         there, I think at an appropriate level of detail.
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         By that, I mean if state of the art program design
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         and assessment methods are used, in this case in
         energy, which they have not been. I mean, if we
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21
         take a look at what goes on in public health
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         programs, for example, mental health programs,
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23 health in general, social welfare programs.

24 There's a much, much greater reliance on theory,

and there's much greater reliance on process

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        evaluation and iterative improvement of those
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       programs. And there's much, much greater reliance
        on parallel research tracks.
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4 And so in some ways, if we simply -- but 5 we -- I'm not -- it's not a rap on the energy 6 system. I mean, I've been in this for 15 years 7 and will continue with it. But the point is we 8 have had the luxury of not having to have to 9 proceed in that fashion in the past. Because all 10 we had to do is, you know, buy some electrons at a 11 cheap price, and, you know, we were successful.

> So I think if what we did was state of the art work in the energy area, then that's what we're talking about. And that could probably be sketched in two paragraphs, I think, what that consists of. Just so nobody makes a mistake and forgets.

MR. ABELSON: Just a quick question. The way I hear you presenting the problem, it's that market transformation, whatever that may be, is not something that we fully know how to accomplish effectively. And if we will work on it thoughtfully we can become much better at it.

24 My question is, if that were taken as a given by -- by the report, are you suggesting that 25

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1 the level of dollars that is devoted to market
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- 2 transformation or the energy efficiency programs
- 3 in the first year of the program in 2002 should be
- 4 cut until we figure out what is it that we're
- 5 doing?
- 6 MR. LUTZENHISER: No. I mean, I'm
- 7 enough of a political realist to realize that one
- 8 doesn't cut one's budgets. I mean, presumably it
- 9 can be used effectively. I'm -- I was surprised
- 10 and charmed and pleased to -- whenever I come to
- 11 California, which is frequently, to see the
- 12 refrigerator rebate programs featured in the
- 13 newspapers, you know. I assume this is doing
- 14 good. And I'm assuming that it's having some
- market effects in the sense that those
- advertisements are, you know, continually placed
- 17 before the public, the fact that refrigerators use
- 18 energy. And that there's a difference between
- some that use a lot and some that use less, and
- whatever.
- 21 So, no, I would never suggest that. But
- I guess what I would suggest would be that while
- some degree of business as usual is probably
- something that anyone's going to be stuck with
- when you inherit a \$250 million program, that a

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1 significant investment in a portfolio of -- of
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- 2 pilot efforts to understand, intervene
- 3 strategically in particular markets and
- 4 submarkets, carefully, thoughtfully, in a well
- funded and appropriately evaluated way, is --
- 6 would be important. And would be an important
- 7 contribution.
- 8 By the way, you can do some free riding
- 9 in what's going on in the Northwest, because
- 10 they've been out here for a few years now, in
- 11 Pennsylvania and the Northeast, and so on. But in
- 12 fact, that would be a real service, I think, to
- 13 the rest of the country and the rest of the --
- rest of the world, too. Because mostly those
- 15 folks don't have the luxury of the size of
- 16 budgets, the size of population, the scale of the
- 17 problem, or the willingness to innovate, to be
- able to do that kind of work in a really large
- 19 scale.
- 20 Now, I think a portfolio approach like a
- 21 venture capital approach makes sense. And maybe
- 22 eight or ten of those are going to fail. And
- 23 maybe market transformation won't work. And a
- 24 social scientist is interested in historical
- 25 processes. I'm perfectly willing to believe that

1 15, 20, 30 years hence, all of the work of energy 2 system people to transform markets will have not 3 transformed markets.

4 But I also think that markets are going 5 to have to be transformed if we're going to come 6 anywhere close to doing something like Kyoto. 7 Meeting those Kyoto targets. And while there's 8 some debate about whether that's something that we 9 ought to be doing, the scientific community -- and I count myself as a member -- is unanimous in its 10 11 belief that those need to be met, and more so.

So I think it's an exciting time, with some really exciting prospects.

14 PRESIDING MEMBER LAURIE: Thank you.

15 Loren, I've got a question.

MR. LUTZENHISER: Okay.

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17 PRESIDING MEMBER LAURIE: Some points

18 have been brought up about -- and I think very

19 relevant, regarding how energy conservation

20 programs can be impacted by the price of energy,

21 and how such programs may be impacted by lower

22 energy prices.

Is it your understanding that market transformation programs are thus affected by a balance between price versus intangibles? And

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then is it a question as to what those intangibles
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- 2 are. What is it that drives the consumer, other
- 3 than price. And if that can be determined, should
- 4 moneys be spent on education programs so as to
- 5 affect market.
- 6 MR. LUTZENHISER: I think price -- yes.
- 7 Certainly price has an effect on consumer choice
- 8 and behavior. Very low prices send the signal
- 9 that energy is a non-issue. The amount of energy
- 10 budgets, the amount of people's annual consumption
- 11 by -- that's represented by energy tends to be
- 12 quite low. It's higher in California than lots of
- other places. And when you add commute gasoline
- 14 costs and so on, it's not an insignificant part of
- 15 budget.
- 16 But -- but it tends to be a small enough
- 17 part that when coupled with the fact that energy
- is invisible, except with the billing signal and
- so on, price is hard to interpret and low prices
- 20 have to go to work against price based strategies,
- 21 I would think. And that's been a frustration with
- DSM programs along. Low uptake of stuff, even
- 23 well subsidized stuff, because the price has just
- 24 made it irrelevant.
- 25 With that said, price is interpreted by

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1 consumers in a variety of ways. And there's a lot
2 more than price going on here. The recent polling
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- 3 data supports long term trend data that goes back
- 4 at least 20 years, that show sort of a fundamental
- 5 shift in thinking about environment in the U.S.,
- 6 to where the average American now holds an
- 7 ecological paradigm that only population
- 8 ecologists held in the 1950's, 1960's. There's a
- 9 fundamental sort of change in the way we
- 10 understand the natural world to work, and -- and
- 11 people are very environmental in their
- orientation. They're very supportive of these
- 13 kinds of things.
- 14 They're very concerned about the
- 15 environment. We're starting to see evidence of
- 16 this in the popular press and the popular culture,
- and so on. The problem, people aren't able to
- 18 understand how to link their own behavior with an
- invisible commodity, with distant collective
- 20 environmental impacts. Drawing those linkages for
- 21 people is likely to have powerful effects. People
- 22 are also seizing on green power in ways that were
- 23 surprising to the -- quite surprising to the
- 24 utilities, and what not, when given those kinds of
- 25 choices at incrementally higher cost.

I think, yeah, I think that price works

in ways that we don't quite understand. Low

- 3 prices are going to militate against these kinds
- 4 of things. Price is not -- is not a huge
- 5 deterrent in this case. In fact, I wouldn't sell
- 6 efficiency on price. I wouldn't sell conservation
- 7 on price.
- I mean, I think a fundamental mistake
- 9 was made in some of the writing and doing 15, 20
- 10 years ago, in a way, when the environment -- the
- 11 big environmental NGOs went to the table and
- 12 helped redefine energy conservation and its
- 13 environmental consequences, environmental impacts
- of the energy system, as simply a matter of good
- business sense and least cost. Because that one
- 16 backfired when natural gas prices fell and
- 17 combustion turbine technology took off.
- So in lots of -- you know, so there's a
- 19 need to recapture that connection, I think. But
- 20 it's part of state policy, I mean, to pursue these
- 21 kinds of things, I think, and an appropriate role
- for the Commission to think about this and act on
- 23 it.
- 24 PRESIDING MEMBER LAURIE: Thank you,
- 25 sir.

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1 When it comes to actually writing the
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- 2 report, I have heard staff say, indirectly, that
- 3 in order to assure that the Legislature will
- 4 understand it, they're going to give it to me, and
- 5 if I can understand it they are virtually
- 6 guaranteed that any other reader will.
- 7 Nobody, again, has directly told me
- 8 that.
- 9 (Laughter.)
- 10 PRESIDING MEMBER LAURIE: Nicole
- 11 Biggart, from UC Davis, please.
- 12 MS. BIGGART: Commissioner Laurie and
- 13 Commissioner Pernell and staff, thank you.
- 14 I'm -- my colleague, Loren Lutzenhiser
- 15 -- and we are colleagues, in fact, because we
- 16 collaborate together and have collaborated on the
- 17 CEC scoping studies, so you've seen some of our
- 18 work together. Loren has just raised the issue
- 19 that you're in the process of transforming a
- 20 market, but you don't really know what a market
- 21 is. And so he's raised a problem. And I'd like
- 22 to suggest that there are some solutions. He's --
- 23 that the kind of approach where we assume a
- 24 market, the demand side management approach to
- 25 markets, has -- is giving way to far more complex

- 1 understandings of how markets work.
- I am new to the area of energy research.
- 3 My primary research has been global comparative
- 4 economies. I'm an economic sociologist. I look
- 5 at how social structure influences economic
- 6 organization and economic action. And a couple of
- 7 years ago, Loren -- and I'm interested in why,
- 8 when economists go to marketizing economies like
- 9 the former Soviet Republic, that the theories
- don't work very well.
- 11 And, in fact, there's a lot of -- a lot
- of evidence to suggest that you don't start all
- over and structure a new market. That, in fact,
- 14 that there are social structures, cultures, sets
- of social relationships that are already there.
- 16 And if you're going to intervene in structuring or
- 17 restructuring a market you have to take cognizance
- of what already exists.
- 19 And Loren suggested to me a couple of
- 20 years ago that those are the kinds of ideas that
- 21 the energy community needed to know about, and
- 22 hear. And I think he's right. I've got two years
- now, in fact, working on some of the CEC issues,
- and I think that you have got to be aware that you
- 25 are -- you aren't starting with a tabula rasa,

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1 that you are starting with a set of actors, a
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- 2 history, political relationships that already
- 3 exist.
- 4 While there may not be a lot of
- 5 information about precisely what a market
- 6 transformation -- what market transformation is,
- 7 there are a lot of people and ideas that are on
- 8 your side. The -- in the last ten years or so,
- 9 and in part because of changes in the global
- 10 economy, there -- there's a small but growing
- group of people who are interested in the
- 12 structure of markets.
- So I want to suggest that across the
- 14 Causeway, you have some friends at Davis and
- 15 Berkeley and elsewhere in the UC system. And that
- 16 we -- we are willing to work with you on
- 17 developing an intellectual -- intellectual
- 18 partnership with you, to the extent that that
- 19 seems an -- appropriate to you.
- 20 Loren misquoted something that -- that I
- often tell my MBA students. I teach MBA students.
- They're not -- they're not interested in theories,
- 23 either. They want to go out and change the world
- 24 and make a lot of money. But I said that the --
- 25 the most -- the most practical -- there's nothing

so practical as a good theory. That when you go

- out and act and you don't have a theory, you --
- 3 you threaten the gods, and all kinds of things can
- 4 -- can happen to you. So I want to suggest that
- 5 there are -- there are a lot of people out there
- 6 who are willing and able to work with you.
- 7 I have put together a discussion paper
- 8 that I will give to you, and I will also enter
- 9 into the -- into the record for your
- 10 consideration.
- 11 PRESIDING MEMBER LAURIE: Thank you.
- 12 Any questions? Mr. Wilson.
- MR. WILSON: Your opening remarks were
- 14 quite intriguing. I wonder if you could give us
- an example of some pre-existing conditions in the
- market that would affect how we would design a
- 17 market transformation program.
- MS. BIGGART: Let me -- as I said, I'm
- 19 relatively new to this, but let me talk about a
- 20 study which we are just undertaking on commercial
- 21 -- on commercial buildings market.
- We were presented with the idea that the
- 23 technology that exists to make energy efficient
- 24 buildings, there's much of it is out there that's
- not being used. And you'd think that if actors

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were rational they would do something to lower
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- 2 their -- their energy costs. But the commercial
- 3 buildings market is not -- is not so simple, that
- 4 there are a wide range of factors, social and
- 5 political, that -- that influence why those
- 6 technologies are being adopted.
- 7 And I will just rattle off a few for
- 8 you. One is if a -- the fact that the trades
- 9 cannot necessarily install a new technology if the
- 10 -- if the apprentice programs don't in fact teach
- 11 them how to -- to install those things. Differing
- trades have politics between them. They don't
- 13 necessarily work together, particularly in
- 14 adopting innovations.
- The architects and the engineers who
- design buildings don't necessarily work together.
- 17 Architects have a very different occupational
- goal. It's often aesthetic. Whereas engineers
- 19 want to make buildings that work and that are
- 20 reliable. And those two things don't necessarily
- work together.
- 22 You have mortgage markets that will not
- 23 lend on buildings that do not have -- have
- 24 traditional technologies. Innovative
- 25 technologies, they're not particularly interested

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in. Or else they'll charge you a higher mortgage
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- 2 rate. Building code inspectors, building codes
- 3 and then the inspectors, will only inspect for
- 4 technologies that they understand. So buildings
- 5 which use 30 percent of electrical energy aren't
- 6 as efficient as they could be, but it's not just a
- 7 matter of price, or the cost of energy. There are
- 8 a whole range of -- of relationships between the
- 9 actors that put together -- put together and
- 10 utilize commercial buildings.
- 11 And unless we build a theory based on
- the empirical reality of how -- how the commercial
- 13 building market is put together and who those
- 14 actors are, and what their relationships are to
- each other, we're going to -- we're not going to
- 16 get very far.
- 17 PRESIDING MEMBER LAURIE: Thank you very
- 18 much.
- 19 The reason those comments are so
- intriguing is that they're true.
- 21 (Laughter.)
- 22 PRESIDING MEMBER LAURIE: We may want to
- 23 consider including such in our report.
- Mr. Sperberg.
- MR. SPERBERG: Thank you very much. I

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1 appreciate the opportunity, Commissioners and
2 staff, advisors and audience.
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- 3 My name is Richard Sperberg. I'm the 4 Chief Executive Officer of Onsite Sycom Energy 5 Corporation, which is an energy services company, 6 California based. I'm also -- I have the pleasure 7 to be the current president of the National 8 Association of Energy Service Companies, which is 9 our national trade organization, which is involved 10 with advocacy at both the federal and the state 11 level. And I'm here in both the capacity as the 12 president of my own -- or CEO of my own company, as well as president of NAESCO. 13
- NAESCO has filed brief comments, and I
 will try to be brief, as well, today.
- I also happen to represent as one of our

 subsidiaries a lighting services company, which is

 related to some of the comments that you -- you

 heard earlier.
- 20 On the -- on the first issue, which is
 21 the need for programs, I will add our voice to the
 22 many voices that you've heard today, that there is
 23 a continuing need for these programs past the
 24 transition that has been identified. I think
 25 energy efficiency is, and has proven to be good

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public policy, not only for economic benefits,
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- 2 which Rich Ferguson has pointed out and I -- I'm
- 3 very intrigued by his analysis because it does not
- 4 represent participant benefits. In other words,
- 5 that -- that seven and a half cents a kilowatt
- 6 hour that he is talking about is benefits to the
- 7 overall system from an economic standpoint, in
- 8 just the lower price for kilowatt hours.
- 9 And I think that should be explored in
- 10 terms of the economic benefits that energy
- efficiency brings to the overall system, but also
- 12 because of the externalities that everybody's
- 13 talked about, and that continue to be very
- important to the -- to the state and to the world,
- in terms of the environmental benefits and other
- 16 benefits.
- 17 But market barriers still exist in our
- 18 marketplace, and, as well, the market structure
- involving suppliers and customers is still
- fragmented and immature. And that's one of the
- 21 reasons why public policy is well served by
- 22 continuing to support and try to overcome these
- 23 barriers.
- 24 As we go to administrative structures, I
- 25 think that our principal guidepost and the

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principle that you should consider while writing
the report is to minimize administration, and
encourage the natural market to operate, which are
customers making decisions to implement energy
efficiency, as well as suppliers making decisions
to supply and making money at -- and profit, that
evil word, profit, in actually supplying those --
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those services.

I also think an important part of the administrative structure that you should consider is not to ignore the value of the existing expertise and motivation within the utility administrators. One of the things that I have come to appreciate is that the utilities, as they've administered the programs over a long period of time and under a very different regulatory framework, have accomplished incredible results. Not only in terms of the actual savings that have been produced over the years, but also in terms of the creation of programs, and actually, in many cases, the implementation of those programs under that model.

They've also made very significant progress, I feel, in the last several years, the last couple of years, since AB 1890 was -- was

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        passed. They have successfully, or in many cases
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        made substantial progress towards moving away from
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        a program implementation and command and control
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        and design, and much more towards a program
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        administrator. And I think they should be
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        complimented on the progress that they've made
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        towards -- towards the -- towards becoming
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        administrators rather than implementers.
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                  I also want to point out an issue which
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is sometimes -- I've been thinking about, and I'm not sure whether I have it all right, but even if you do shift administration of these energy efficiency programs away from the utilities, there's still a conflict, and many people point out that this -- you've got this inherent conflict that you want to sell more kilowatt hours, how can you possibly do a good job of saving kilowatt hours. But even if you do shift the administration of these programs away, the conflict still remains.

So combined with the administration of effective energy efficiency programs, there needs to be a coupling of -- and examination of the regulatory aspects. And this is where you, the Commission, should work very closely with the

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1 parallel commission which is -- will continue to
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- 2 regulate the distribution company, and try to make
- 3 sure that from a future regulation standpoint,
- 4 that the utilities are at least neutral, if not
- 5 positive, towards the implementation of energy
- 6 efficiency.
- 7 I think the other reason that the
- 8 utilities will be important is that they will
- 9 continue to be, even as utility distribution
- 10 companies that are not involved with the
- 11 generation of kilowatt hours, they'll have an
- 12 important role with the customers as both a
- 13 credibility source, as well as a continuing
- 14 responsibility to service those customers. I'm
- not one to say that the best way to administer
- these programs is the utilities, but I think in
- 17 your difficult task of looking at the future, that
- 18 we should take advantage of some of these -- some
- of these values.
- 20 I also think that the solution that you
- 21 might also consider is that there may be different
- 22 models, different administrative structures for
- 23 different marketplaces. The market actors and the
- 24 -- the barriers that are present in different
- 25 markets may call for different type structures. I

know recently, since many of our members of the National Association of Energy Service Companies service the residential sector, they see a much more important role that the utilities serve, as the source of information for the smaller customers. Whereas in the larger commercial and industrial sector, the utilities are not as important as a source of information, but have been effective administrators. So you might consider different models for the different --different types of markets.

As far as transition issues and things that you should consider, or we suggest that you consider, I agree with many of the speakers from earlier, and especially with the lighting company representative, that continuity and stability are very important in the marketplace.

The project development cycle for our business is a very long one. We start, and some people have given examples of contracting with the CEC. I -- I parallel my own experience of contracting with private customers, when it comes to both convincing them that energy efficiency is okay, and then ultimately getting their attention long enough to sign a contract. So the project

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1 development cycles are long.
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Industry investments, which my company 3 is making and other of our members are making in 4 this industry and in the marketplace, are based on 5 long term desires, and long term goals of 6 profitability. So my suggestion is that you also 7 allow the programs, as they get instituted, time 8 to work. 9 I think that you should also consider 10 continuing programs that involve private providers. Obviously, that's an important part of 11 12 the goals that ultimately you have, and the 13 Standard Performance Contract is one of those programs. One of the -- some of the factors that 14 15 lead me to that conclusion is -- one is we provide 16 comprehensiveness. We do provide -- when we go 17 into a building, we look at all of the opportunities for energy efficiency. And so we 18 19 gather some of the lost opportunities that some of

We also provide creative solutions. In many cases we combine technologies and we look at

the other segments might lose if they just go in

and, for example, retrofit the lights or retrofit

the chiller, versus looking at the building as a

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23

whole.

ways in which technology can be put together in a creative way to solve not only the energy issues of the buildings, but -- and the users, but also their operational issues.

We also represent a part of the industry that stands for measurement of savings. So when we implement a project, most of our projects are based on actually delivering those -- the results of the actual savings, and standing by those, either in a guarantee or in a performance based contract.

And I -- I was writing notes down here, and one of the previous speakers stimulated something else, and that is I think the ESCO industry also represents a very effective mechanism for introducing new technology. So as new technologies are -- are proven in the lab or demonstrated in pilot programs, the ESCO industry is willing to take risks because of their experience and their familiarity with technology that individual customers might not be willing to take. And so as a performance contractor, and as that mechanism, it might be an effective thing to consider as you go through your deliberations.

25 I think in closing, I want to just point

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1 out that I -- I will not respond to Mr. Link's
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- 2 comments about the relative merits of the rebates
- 3 and the Standard Performance Contract. Although I
- 4 disagree with his conclusions, he had some very
- 5 important input that I think you need to consider.
- 6 And I think there will be ample opportunity in
- 7 future workshops and future parts of this report
- 8 to examine the specific program issues. I think
- 9 we agree on a lot more than we disagree on.
- 10 So, again, I appreciate the opportunity
- 11 to address you, and I'll be available for
- 12 questions.
- 13 PRESIDING MEMBER LAURIE: Thank you,
- 14 Rich.
- Mr. Miller. NRDC.
- 16 MR. MILLER: Good afternoon. My name is
- 17 Peter Miller. I'm representing the Natural
- 18 Resources Develop -- Defense Council. And
- 19 everybody else gets it wrong, I guess it's about
- 20 time I got it wrong.
- 21 (Laughter.)
- MR. MILLER: And thank you for the
- 23 opportunity to speak today.
- 24 What faces the Commission now is an
- 25 enormous opportunity. But it's an opportunity

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that is easily squandered. I'm trying to think of
an apt metaphor, and I think -- let me try one
out. It doesn't quite hang together, but from the
distance of 90 miles, I think it's possible to
look at the energy efficiency programs that have
been run under the aegis of the PUC over the past
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- 7 15, nearly 20 years, and as if it were a big white
- 8 ball that -- up in the air, and all the parties
- 9 over there have been able to keep it up in the
- 10 air. It looks so easy from a distance, that it
- 11 must be a balloon.
- And when it's passed over the Energy

 Commission, the perception might be well, here it

 comes, don't worry, it's a balloon, it's kind of

 floating by itself, and it's easy. But it turns

 out that that's an egg out there, and it's

 actually been taking quite a bit of effort and

 skill to keep that thing alive.
- And it can be easily dropped, and once
 dropped, not recoverable. And I think it's
 important to recognize that these programs are
 something that will take a tremendous amount of
 effort, skill, and expertise to keep in the air.
 And while all parties included agree that there's
 a tremendous need for these programs without the

1 political consensus and support, and record of

- 2 success that -- that we've enjoyed in the past,
- 3 that continued funding is not assured. And
- 4 continuation of the programs is not assured.
- 5 And so I think it's important to
- 6 recognize, to -- to give appropriate weight to the
- 7 effort that it's going to take to continue with
- 8 these programs.
- 9 I think it's also important to recognize
- 10 the record of success that we've enjoyed, and not
- 11 to diminish that in any way. We were one of those
- 12 environmental NGOs that promoted the programs and
- have supported the programs over many years. And
- in no way do we feel that there's been a failure
- as a result of that effort. And in fact, compared
- to other environmental programs, other public
- 17 programs that have been funded and supported over
- many years, we think that energy -- the energy
- 19 efficiency programs in the state, in particular,
- 20 have -- can hold their record up and -- with
- 21 pride. I think we've accomplished a tremendous
- amount, and we've really set both a national and
- an international model to be emulated, and hold
- 24 the best promise for achieving the goals of Kyoto
- and protecting the planet from global change,

- 1 global environmental change.
- 2 So I think we've got an important record
- of success. We've saved a tremendous amount of
- 4 energy. We've saved a tremendous amount of money.
- We've protected the environment, and we've
- 6 transformed markets, both in the state,
- 7 nationally, and internationally.
- 8 Given this record of success, and the --
- 9 the fragility of the programs, and their uncertain
- 10 future, I think that the byword should be
- 11 evolution, not revolution. We've got a record of
- success, let's move forward, let's continue to
- make changes, and there have been continuous
- changes in program design, in program
- administration, over 15 to 20 years that they've
- been in place.
- 17 I've heard people refer to business as
- usual, energy efficiency business as usual, DSM.
- 19 There's no such thing. It's -- there's been a
- 20 continual change, and there is no traditional way
- 21 of doing things because things have changed pretty
- 22 dramatically, if not every year, then every other
- year. So I think it's important to emphasize
- 24 continuity and stability, and particularly so in
- 25 this state, in which there's always new ideas and

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1 -- and innovation around the corner.
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2	So let's not discourage the new
3	innovation, new ideas. Let's harness them, but
4	let's do it in a stable framework that can allow
5	the market players and the industry to thrive.
6	On that note, where are the the
7	leading where should we focus in the years
8	ahead, and I think I'd offer three highlights.
9	One is national collaboration. The
10	biggest opportunity in terms of program design
11	that's facing us in the years ahead is the fact
12	that there are other regional and national
13	organizations in place, with funding, running
14	programs that are interested and already in some
15	cases collaborating with the California programs.
16	We can achieve a tremendous amount by working with
17	these groups. The Northwest Alliance, the
18	Northeast effort, national programs through EPA
19	and DOE, and elsewhere in the country, there's new
20	funding available in New York, New Jersey, other
21	states, and there's a tremendous amount that we
22	can accomplish by working together.
23	We have a fair amount of money available
24	for programs here, but we can leverage it by
25	working with other groups.

1	Market implementation. Take advantage
2	of those market actors, and you've heard from some
3	of them today. We've got a I think beyond a
4	fledgling industry. We've got an industry that's
5	getting up and running, that can accomplish a lot
6	Use them. Work with them. Use market actors to
7	implement programs. Help them develop, help them
8	stand on their own two feet.
9	And, three, program coordination. As
10	the people in this room and on the panel are well
11	aware, there are other programs that we need to
12	coordinate with. Title 24 building standards
13	program, the PIER research program, and the
14	Renewables program. All of which have aspects
15	that would benefit from coordination with energy
16	efficiency program, and vice-versa.
17	On the question of administration. The
18	I don't have a solution or a proposal to offer
19	today. But the one point I'd like to make is that
20	the the distribution utilities, I believe, will
21	have a role to play in the future. They are going
22	to continue to provide, to distribute and be the

24 electricity to homes, and they are the people that

-- they are the company, the institution that if

people that control the wires that deliver

23

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1 someone has a problem with their electricity,
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- they're the first person they're going to call.
- 3 If they have a question about energy efficiency,
- 4 they're going to continue to call them. If we
- 5 want to incorporate the benefits of energy
- 6 efficiency into distribution system expansion and
- 7 planning, they're the people who are going to have
- 8 to play a role.
- 9 So there is an important and essential
- 10 role for utilities to play. They're part of the
- 11 market, they're part of the industry, and they --
- 12 I guess the final point, there's a tremendous
- 13 amount of expertise and experience and stability,
- in terms of administering programs. So I think
- it's important to consider and to fully value that
- 16 role.
- 17 That's all I have today. I'd be glad to
- answer any questions.
- 19 PRESIDING MEMBER LAURIE: Questions of
- 20 Mr. Miller. Mr. Abelson.
- 21 MR. ABELSON: I have just a quick
- question on the coordination with other programs.
- You mentioned the renewables program, and earlier
- 24 today one of the speakers also mentioned the
- 25 importance of not overlooking distributed

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generation as it applies to energy efficiency.
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- 2 As I understand the way AB 1890 was
- 3 written, the renewables program only has a four
- 4 year life, at least in terms of that legislation.
- 5 Do you believe that this Commission is part of
- 6 whatever it's talking about and the transition
- 7 report for energy efficiency ought to in some way
- 8 suggest there's a need for continuation in the
- 9 distributed generation, or renewables, as it
- 10 relates to energy efficiency?
- MR. MILLER: I'm not sure that this
- 12 report is the appropriate place to ask for
- 13 continued funding, but I think it would be
- valuable to point out the potential synergy from a
- renewables program and an energy efficiency
- 16 program in the future.
- MS. LEWIS: I have a question. You
- 18 talked about national collaboration --
- 19 PRESIDING MEMBER LAURIE: Kae, would you
- use the microphone, please?
- MS. LEWIS: Oh, I'm sorry.
- 22 You were talking about national
- 23 collaboration. Are you talking about something
- 24 more than say just sharing ideas on program
- design, or are you perhaps referring just to

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1 actual, you know, regional type programs?
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- 2 MR. MILLER: The latter. I believe that
- 3 there's a tremendous opportunity, first by
- 4 starting with sharing program ideas. And not just
- 5 program ideas, all aspects of the effort,
- 6 measurement and evaluation, administration and
- 7 programs, but the implementation across regions,
- 8 across states, and nationwide. Yeah.
- 9 MR. MESSENGER: As has already been --
- one of the issues that I think is a typical one
- for us to wrestle with in this report is to what
- 12 extent we should consider funding for load
- shifting programs, as opposed to the more
- 14 traditional energy efficiency programs. And -- or
- whether that function should be left to the UDCs,
- in terms of the way that they manage the -- the
- 17 load on their distribution system.
- Do you have any policy position one way
- or the other in terms of whether we should be
- 20 looking at devoting more funding towards load
- 21 shifting programs as opposed to straight baseload
- 22 efficiency?
- MR. MILLER: I think that this is an
- important point. It brings up a very important
- issue about the objective of the programs, the

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goal. And I think it's important to be clear that
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- 2 the objective of the program should be energy
- 3 savings. Saving energy, because of the benefits,
- 4 economic and environmental benefits that that
- 5 provides. The goal should not be a market
- 6 transformation. The goal is not understanding
- 7 markets. The goal is not helping a utility manage
- 8 its -- its distribution system. The goal is
- 9 energy savings, because of the economic and
- 10 environmental benefits that provide.
- 11 There are a variety of tools to that,
- 12 and I see market transformation as one of those.
- But in general, we should be trying to accomplish
- as much as possible for as little as possible.
- 15 Leverage our available funds to accomplish as much
- 16 as possible. And if market transformation
- 17 theories provide a way to do this, then that's
- 18 great.
- 19 I don't see load shifting as providing
- 20 those -- those essential benefits. I think that
- 21 there are also concerns in terms of the likely
- 22 sectors that that would be provided in, since from
- 23 my experience, that the greatest potential there
- is really in a large commercial industrial sector,
- and there's little real opportunity in terms of

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1 residential benefits.
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- 2 But I'm willing to be open minded on
- 3 that.
- 4 MR. WILSON: Peter, Congress is
- 5 currently considering restructuring legislation,
- and different bills have different elements, and
- 7 Public Goods elements in them. Do you think the
- 8 Commission should use this report to take a
- 9 position on sort of a national Public Goods Charge
- 10 for energy efficiency, and use this as an
- opportunity to urge the Legislature and the
- 12 Governor to take a position?
- MR. MILLER: I don't know if that's --
- if it's the appropriate place. I guess my initial
- 15 thought might be to keep the report focused,
- 16 you've got a lot to do in the next six months to
- 17 get this report -- I take it back, not six months.
- I think it's about five months, or maybe four and
- 19 a half. Time is ticking.
- 20 (Laughter.)
- 21 MR. MILLER: So if you can get the
- 22 report done in time and you have a couple of extra
- weeks, sure.
- 24 (Laughter.)
- 25 PRESIDING MEMBER LAURIE: Thank you,

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- 1 Peter.
- 2 You know, I was much relieved when you
- 3 were discussing your analogies of balloons and
- 4 eggs flying over the Commission. Normally, when
- 5 the Commission looks out on the horizon and sees
- 6 items floating towards it, they are normally
- 7 either in the form of a large bird, or in some
- 8 cases giant elephants, and so when we only have
- 9 eggs flying over we are much relieved.
- 10 (Laughter.)
- 11 PRESIDING MEMBER LAURIE: Thank you.
- 12 Timing is an issue. This is September. This
- 13 report will not be late. So we do not have six
- months, we have two to three months to get this
- baby written. So time is an issue.
- Thank you, Peter, very much.
- 17 MR. MILLER: Thank you.
- 18 PRESIDING MEMBER LAURIE: Thank you.
- Tony Dunn, please.
- MR. DUNN: Good afternoon. My name is
- 21 Tony Dunn. I represent the Sierra Energy Center,
- 22 which is a new rural energy efficiency center that
- just opened up in Sonora. It's a partnership
- 24 between Pacific Gas and Electric and the Economic
- 25 Development Company of Tuolumne County. So you

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1 can probably imagine my --
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- 2 PRESIDING MEMBER LAURIE: I'm sorry,
- 3 partnership between --
- 4 MR. DUNN: Pacific Gas and Electric and
- 5 the Economic Development Company of Tuolumne
- 6 County.
- 7 PRESIDING MEMBER LAURIE: Thank you.
- 8 MR. DUNN: And my salary comes directly
- 9 from the Public Goods Charge, so I think you
- 10 probably know where I stand on the future of the
- 11 programs.
- 12 (Laughter.)
- 13 MR. DUNN: I think they should be ended
- 14 immediately. The money could be better spent
- 15 elsewhere. Never mind that.
- 16 Actually, I come here with more --
- 17 actually a lot more questions and concerns than I
- do comments, but I'm going to limit myself mostly
- 19 to the comments, because I have the impression
- that nobody really has a lot of answers yet to the
- 21 questions and concerns I have.
- 22 But I do have some concerns as far as
- 23 the administration of the energy efficiency
- 24 programs in the future. As a small, rural
- 25 community I'm concerned about the way that

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1
         programs will be evaluated as far as their
 2
         viability in the future. If it goes strictly on a
         dollar spent per kilowatt hour saved for programs,
 3
 4
         it's really going to be a problem for rural
 5
         communities such as Sonora and a lot of other
 6
         areas in California, because we really don't have
 7
         very many people, except that the people are
 8
         contributing to the Public Goods Charge. And if
 9
         programs aren't available somehow to represent
         those people, then that's money that's leaving
10
11
         their economy that they're contributing to, but
12
         they're getting little or no direct benefit from.
13
                   And I think that that needs to be
14
         considered in how the program is administered in
15
         the future, with respect to how the decisions are
16
         made, who decides and how, what criteria do they
17
         decide, of what energy efficiency programs are
         viable. Who is going to be funded, and who is not
18
19
         going to be funded. And I'm not particularly
20
         concerned in the short term. I was told
21
         explicitly when I was hired that we had money for
22
         maybe a couple of years, and then it was going to
23
         be a different world and we didn't know what that
24
         was.
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So I'm not concerned about my own

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1
         personal future, but I am concerned about how --
 2
         how -- what sort of fair and just system for
 3
         distributing these funds, how people are going to
 4
         be represented, and what the criteria for
 5
         representation of what these funds is going to be.
 б
                   One of the advantages of the Sierra
 7
         Energy Center is that as a partnership -- I don't
 8
         actually work for PG&E, I just want to make that
 9
         clear. As a partnership with the Economic
10
         Development Company, our goal is energy efficiency
11
         through economic development. So we are working
12
         very hard with the businesses in Tuolumne County
         to develop their -- develop the economy, not
13
14
         rampant development, but to use energy efficiency
15
         as a tool to boost the business of the contractors
         and the retailers. And at the same time, to save
16
17
         money for the commercial and residential consumers
18
         of electricity.
19
                   And I think that's really a dynamic
         model that, to me, has really struck me as a
20
21
         stroke of genius. It has provided us with access
22
```

model that, to me, has really struck me as a

stroke of genius. It has provided us with access

to so many people and so many tools, and that

we've been so well received. And I think that

that's something that you might want to consider

as incorporating, that energy efficiency doesn't

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1
         have to stand alone as the approach to this
 2
         program. By tying it in with economic development
         in Tuolumne County, we've met -- we've only -- we
 3
 4
         opened a month ago, so, but in that month, we've
 5
         met with incredible success. People are really
 6
         interested because we offer them not only a way to
 7
         be energy efficient and save money through that,
 8
         but also a way to develop the economy of the
 9
         county and of the businesses.
10
                   So we're offering people, as you know,
11
```

the market is not necessarily rational when you 12 try to tell people the way you can save money by 13 doing these energy efficient retrofits, and they don't necessarily buy it. They -- but we're 14 15 offering them something else, something synergistic. We're getting people excited about 16 17 the fact that we're working with the economy. We're working with the businesses. It's a small 18 19 community. Everybody knows everybody. And they 20 want to participate.

So the point is that don't think of
energy efficiency as something that's by itself.

It's part of a greater picture. It's part of the
whole community. And in other areas, in other
markets, it may not be economic development that

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1 is the key to tie it in. It may be something
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- 2 else. But however this program is administered
- 3 and however you think about it, please do not
- 4 think about energy efficiency as some sort of
- 5 stand alone issue. It can be much more successful
- 6 if you tie it in with another issue that it can
- 7 synergize with.
- 8 And I also wanted to comment a little
- 9 bit about the role of the utilities, and the
- 10 future of the program. Some comments have been
- 11 made. The impression that I've kind of gotten,
- 12 and I may be wrong, and I don't -- necessarily
- don't want to stigmatize anybody with a particular
- 14 viewpoint. But I -- it seems to be the industry
- people who are saying well, the utilities have a
- 16 role. And what I hear from the governmental side
- is more that that's not really considered, it's
- 18 more thinking about setting up a non-profit or
- doing something governmental.
- 20 And I just want to share my personal
- 21 experience. Working with Pacific Gas and
- 22 Electric, is that I have been extremely impressed
- 23 with their commitment to energy efficiency and
- 24 energy efficiency programs. And I see a lot of
- 25 problems in setting up a new organization, whether

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1 it's governmental or a non-profit, in dealing with
```

- 2 that.
- The first one is whoever you use, they
- do not -- whoever, whatever future mechanism you
- 5 choose to use, whoever it will be will not have
- 6 the history of customer contact and consumer
- 7 dealing that the utilities will have. And that is
- 8 going to be an issue. The utilities have
- 9 developed years and years of experience dealing
- 10 with the consumers in energy efficiency programs,
- 11 at all levels. And PG&E, I can't speak for the
- other utilities, has, to me, anyway, demonstrated
- an incredible commitment to providing good energy
- 14 efficiency services to the customers.
- 15 I'm not advocating that they maintain at
- 16 the way the programs are. But I just want to say
- 17 that they have done, in my opinion, a very good
- 18 job.
- 19 And I think in the future, they --
- they're going to have to participate at some
- 21 level, maybe in a transition, maybe you will want
- 22 to go to a non-profit organization, or a
- 23 governmental agency -- I hope not a governmental
- 24 agency, personally -- to oversee it. But I think
- 25 that they need to be involved in the transition.

```
1
         I think that, as some of the industry people have
 2
         been saying, that the stability and continuity is
         extremely important, and that just wrenching the
 3
 4
         program from being administered by the utilities
 5
         to somebody totally different is going to cause a
 6
         discontinuity which will cause a lot of problems.
 7
                   I am sort of on the front lines. My job
         is to get the Public Goods funds to the consumer.
 8
 9
         I talk to the businesses, I talk to the
10
         residential customers and say there are programs
11
         out there that can help you get energy efficient,
12
         that can provide you with tools and resources and
13
         financing. And by changing that structure
14
         overnight, it's going to make it confusing. For
15
         me, I can handle it, but it's going to make it
         more confusing for the customers who say well, I
16
17
         understand there's a rebate program on
         refrigerators. Oh, that's gone now.
18
19
                   And I know there's been a lot of changes
         over the years, you know. It's a constantly
20
         evolving thing. And that is -- causes confusion.
21
22
         And that is one of the contributing factors why
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participation maybe is not at the level that we'd

like to see, is because there is a lot of change

constantly. And by making a major change in the

23

24

```
1 short period of time, I think it's going to have a
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- 2 negative impact on energy efficiency programs.
- 3 Another question I have is no matter who
- 4 administers the program, whether it's the
- 5 utilities or independent operators, or whoever,
- 6 success in market transformation means their
- 7 demise. I think you need to realize that. My
- 8 job, my goal is to really put myself out of
- 9 business, and I realize that. I want to see
- 10 energy efficiency be such a part of the economy in
- 11 Tuolumne County that I'm not needed anymore. I'll
- get a job with the CEC or something like that. Do
- 13 something else.
- 14 But if you start a non-profit company to
- do this, they're -- if they are successful, truly
- 16 successful with market transformation, whatever
- that is, and I certainly don't know what it is,
- then that means that they will come when they go
- out of business, or should go out of business.
- 20 And as a governmental agency, we know how -- how
- 21 eager governmental agencies are to put themselves
- out of business. Even the utilities, I'm sure
- that they wouldn't want to see themself put out of
- 24 business.
- Whoever runs this, you have to

1 consciously realize that success means an end to

- their job. And that has to be built in somehow,
- 3 some recognition of that, that gives them an
- 4 incentive to be successful. I don't know what,
- 5 you know, job retraining or something like that.
- 6 But nobody, you know, it's not going to take
- 7 somebody that's very bright to get involved in
- 8 this and realize, god, if we really do this job,
- 9 I'll be out of a job. So please consider that.
- 10 And those are kind of a scattering of
- 11 comments, but those are all I have.
- 12 Thank you.
- 13 PRESIDING MEMBER LAURIE: Thank you, Mr.
- Dunn. Thank you, sir. Comments are appreciated.
- 15 Chris Chouteau, PG&E.
- MR. CHOUTEAU: Good afternoon,
- 17 Commissioners and staff. Some old friends, and
- some new faces.
- Just a couple of quick comments. First,
- 20 I think because of the charge you have to write
- 21 this report, which has the potential to shape
- 22 energy efficiency for the next leg of the journey,
- 23 however long that may be, that it be important and
- incumbent on you to really do due diligence about
- what it is you're receiving.

```
1
                   And to give you the good news, when I
 2
         think of Peter Miller's egg, it's actually not
 3
         coming at you through the air and you're figuring
 4
         out how you're going to catch this thing without
 5
         getting it on your face. It's trucked to you.
 6
         It's nicely, carefully packed, refrigerated
 7
         trucks, very large big rig, $250 millon big rig.
 8
         What I want you to know is it doesn't handle like
 9
         a Ferrari. You know. If you want to make quick
10
         turns, quick acceleration, deceleration, you're
11
         going to smash the eggs in the back for sure.
12
                   It also is perishable. It doesn't park
         well. You want to park it, leave it overnight,
13
14
         and figure the theory out, the eggs are going to
15
         be no good by the time you get them to the
16
         consumers. So you've got to keep the rig moving,
17
         you've got to realize that it's big and steer it
         slowly, with some kind of longer vision down the
18
19
         road, longer lead time.
20
                   The second thing I want to talk about is
         customers. I missed a couple of hours this
21
22
         morning, so I don't know if you've heard from a
23
         customer, but I'll bet you haven't. And these
         proceedings aren't customer friendly, and yet
24
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customers are where these programs succeed or

fail, ultimately. And there's a lot of people who

- 2 put a lot of energy and a lot of dollars into this
- 3 business, but it's the customer making the
- 4 decision in the end that really makes us
- 5 successful or not successful.
- 6 So I think it's really important that
- 7 you find a way to get the customer input. And
- 8 these hearings are, you know, these hearings are
- 9 difficult for customers to deal with.
- 10 So I have some ideas about that.
- 11 There's a lot of market data, there are focus
- 12 groups that, you know, and current administrators
- 13 have data. But I think it's also important that
- 14 you hear from customers and find ways of, you
- know, through letter, through written comments,
- through outreach, to incorporate their concerns
- 17 and their thoughts about this change.
- The third thing I wanted to talk about,
- market players. And you've heard from them today.
- They're really key to the success of these
- 21 programs. The energy service companies, the
- vendors, the manufacturers, the contractors, the
- 23 retailers, these are people who build their
- businesses on the decisions that you're going to
- 25 make. And the businesses, like that big rig,

don't steer quickly and deliver a good product

- 2 efficiently. They need lead time. And, they have
- 3 critical expertise. They have critical
- 4 capabilities. They know the markets. You know,
- 5 they are a really important part of this process,
- and they need to be listened to.
- 7 Then there are the administrators. So
- 8 you're listening to one. The administrators are
- 9 going to have lots of opinions about what you
- 10 ought to say. And we have a lot of interest, so
- 11 we're going to have our own interests, we're going
- 12 to be, you know, we're going to be tooting our own
- horn and, you know, we're going to be putting that
- 14 before you. But what I want to say today is when
- 15 you think of administrators in the future, whether
- it's, you know, involves some of the current
- 17 administrators or not, I want to say what I think
- 18 makes for a successful administrator are clear
- 19 goals, measurable objectives, incented
- 20 performance, and that you pick administrators who
- 21 have knowledge and credibility in the markets and
- 22 with the players that you want them to succeed
- with. Which include the market players, include
- the think tanks, the place where the technologies
- come from, the customers, the regulators, the

```
1 national labs. All of the players.
```

- 2 And not least, the regulators and the 3 role of regulation in this. I think the
- 4 regulators have been very key to this process in
- 5 terms of being the focal place where direction
- 6 gets set. You know. We all have opportunities
- 7 every day to set direction, but if we, you know,
- 8 the only -- the only place where everybody in this
- 9 room lines up is at this table. That's the only
- 10 place. Once we get out that door, we have a
- 11 hundred different conflicting priorities, and
- we're going to work it a hundred different ways.
- 13 This is the only chance you have to set one clear
- direction for everybody in the room.
- 15 And also, this is the place where you
- ought to measure the results, and this is the
- 17 place where you ought to reward the performance.
- 18 That's really what's key to the oversight
- 19 function.
- 20 And the last thing I want to say is that
- 21 you won't hear from all the administrators today,
- and they're here in the room. You're going to
- hear from them a lot. But what I want to say is
- they're also available to you for just data.
- Okay. Because they do have a lot of data about

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1 what's going on right now, and they want to make
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- that available. They're going to give you a lot
- of opinion. I'll give you a lot of my opinions.
- 4 But you need to realize that they're also
- 5 available to you for just straight information,
- 6 you know, about what's in this rig that's coming
- 7 your way that you're going to run and own.
- 8 That's it. Thanks.
- 9 PRESIDING MEMBER LAURIE: Thank you,
- 10 Chris. Thank you.
- 11 MR. MESSENGER: I just have one
- 12 question. It has to do with your analogy of
- 13 trying to make sure that the rig is moving and
- steering slowly, as opposed to taking radical
- turns to the left or the right.
- 16 If the Commission were to take that
- seriously, do you think it's important for us to
- 18 give a general sense of what kinds of programs we
- 19 want in this transition report, so that the new
- 20 administrator would have a year and a half, let's
- 21 say, time -- lead time before they actually took
- 22 charge on January 1st, 2002? Or would you --
- 23 would you caution us not to get too detailed in
- 24 terms of what kinds of programs we're looking for,
- and let that evolve over the next 18 months, let's

- 1 say.
- 2 MR. CHOUTEAU: I really encourage you to
- 3 be as clear as you can in this report about the
- 4 kind of directions you think the state ought to be
- 5 studying. Clear objectives, overall objectives
- 6 that really unify this community and what we're
- 7 delivering. That's very helpful.
- 8 A year and a half down the road is
- 9 actually only about 125 feet. So it's not enough.
- 10 You want to tell me to turn in the year and a
- 11 half, it's not enough. So you need more lead time
- 12 than that. And I think you'll hear that from
- 13 customers and other market players.
- MR. MESSENGER: Thank you.
- 15 PRESIDING MEMBER LAURIE: Thank you.
- 16 Anybody else desire to offer thoughts or
- 17 comments to us this afternoon?
- 18 MR. GUSTAVSON: My name is Dale
- 19 Gustavson, and I'm kind of playing two roles
- 20 today, principal of D.A. Gustavson Company, Energy
- 21 Efficiency Consultant, and also here representing
- Penton Media, publishers of Contracting Business,
- 23 the largest magazine in the HVAC contracting
- industry; Heating, Piping, Air Conditioning, the
- largest in the mechanical engineering field; and

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Energy and Environmental Management, which is a
magazine written by and for property and facility
management professionals.
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4 Let me start with just some personal 5 comments, perhaps just to be provocative.

6 With regard to administrators and 7 concern about them being put out of work. I think 8 they have a tremendous opportunity to put 9 themselves out of work, because if they are very successful they will create an industry and a 10 11 market in which they can go to work in a private 12 sector capacity and live happily ever after. I 13 mean, if that isn't enough incentive for most of the folks in the room that really believe in all 14 15 this stuff, I don't know what is.

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With regard to administration. However you come down on the issue, and I've -- I'm on record as stating this before. I believe that whoever administers the funds cannot be positioned, even accidentally, as more credible and more visible than the private providers of these goods and services. It has to do with the fact that buyers and sellers kind of need to get together and learn how to buy and sell, and the sellers need to be credible; in fact, so credible

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  that they're trusted.
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2	And for that reason, not I have been
3	at least trying to make the point that utilities
4	should not continue to administer the funds. Not
5	because they're bad people, not because they don't
6	have expertise, and not because they don't bring
7	an awful lot to however we do this next. Hire
8	them. Use their expertise in other ways. The
9	utilities themselves will never vanish from our
10	view. They are still there. And as long as they
11	are seen as more credible by the buyer, or a
12	source of money for the seller, the two don't
13	create markets. They simply rely upon
14	intervention.
15	So I am so that's provocative
16	question number two. Or comment number two.
17	Three, again, just speaking for myself.
18	In a subcommittee hearing that I had the pleasure
19	of participating in, Senator Pease said something
20	along these lines. This is not a quote. I'm not
21	sure we're here to prop up the energy efficiency
22	industry. I would caution that as you take up

25 by marketing energy efficiency under the name

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your charge, that you're careful not to prop up

the electric power industry, as it restructures,

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energy services. Even using that technology -- or that terminology.
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3	It already happened today. There was ar
4	acronym used, ESP, Energy Service Provider. And
5	in fact, energy efficiency is provided by a whole
6	slew of people, the kind of people that provide
7	the services that Guy Nelson mentioned. You talk
8	about safety and health and comfort, and
9	productivity. These these goods and services
10	are provided by a whole slew of other market
11	actors that that Loren mentioned. We've got
12	HVAC contractors, we have electrical contractors
13	like Mr. Link. We have industrial hygienists and
14	indoor air quality specialists, and lighting
15	companies, and mechanical engineers and electrical
16	engineers. Building engineers. A whole slew of
17	people who are part of the infrastructure.

And so when we start saying we're providing energy services, and I'm just a private sector guy, and I'm -- I'm thinking if I -- what a marketing edge I would have if my -- if I'm an energy provider, but all the -- if I can create the impression in the marketplace that an air conditioning system is an energy system, then who would -- who would you call if you're the

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1 consumer, and you've got a problem with your
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- 2 energy system that provides cooling. You call the
- 3 energy company.
- 4 I think -- real careful because as Loren
- 5 has pointed out, there is this huge
- 6 infrastructure. There's 90,000 HVAC contractors
- 7 in this country with payroll. There's about a
- 8 same number of electrical contractors. I don't
- 9 have the numbers on the mechanical and electrical
- 10 engineers. They are all buying and selling to one
- another. They're wholesalers or manufacturers.
- 12 Energy efficiency can be sold under lots of
- different names. And bundled a lot of different
- 14 ways. If we could move all of those people one
- foot, that would cost a lot less than trying to
- start a whole new industry, under a whole new
- 17 name.
- So I, you know, I just -- and that --
- 19 that part was kind of the speaking on behalf of
- 20 the three magazines, who live in those worlds and
- 21 understand that most of the folks here, most
- 22 utilities don't go to those association meetings.
- 23 They don't go to those national conferences. They
- aren't engaged with the industry leaders. They
- 25 are -- you have an opportunity to structure

1 whatever you do not only acknowledging that they

- 2 exist, but by finding ways to engage them in the
- 3 process.
- 4 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 5 Gustavson. Comments are appreciated.
- 6 We have a gentleman in the back that
- 7 wanted to speak to us.
- 8 Anybody who desires to speak who has not
- 9 as yet spoken.
- 10 MR. NELSON: Thank you, Commissioner,
- 11 for the opportunity to speak again. I just wanted
- 12 to respond on one point that came up twice in the
- 13 afternoon. And Mike Messenger of your staff
- 14 pointed out that you're looking closely at it.
- 15 And I felt that a balancing comment was due on it,
- 16 particularly since we are commenting directly to
- 17 the Utilities Commission on this question of load
- 18 management and peaking.
- So if I were to phrase the question --
- 20 this is Will Nelson for Residential Energy
- 21 Efficiency Clearinghouse. Should PCG funds and
- should the EE programs be addressing load
- 23 management strategies. Our answer to that is
- unequivocally yes, they should be. This should
- 25 not be regarded as an either/or question, or some

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sort of almost libertarian market ideology that
says pricing is going to solve this problem.
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If we've seen anything in energy 3 4 problems and energy crises in different eras is 5 this -- there is a certain amount of inelasticity 6 to the problems in the markets, and the demand 7 uses. So we -- we do, just to be brief, there is a planning function that's due. There are 8 9 strategies, and there should be a public sphere of 10 strategy in this area to address it.

11 I would also have to say I believe that 12 there are many untapped and undiscovered opportunities in the residential sector, small 13 commercial sector, many other sectors, that can 14 15 contribute to alleviating the peak demand problems. And I'd have to again say it would be 16 17 an unacceptable roll of the market dice for the regulating agencies to not address this question 18 19 with the EE funds, and I think you would find a lot of the public quite surprised that this issue 20 21 is not being addressed, at least at some level, 22 and it is not very much, at this point. And we 23 found, after two years of evolution, program design evolution, we reached the point recently 24 25 where we saw so little effort being made in this

load management area that we've addressed it, and

- we're elevating it as an issue at the Utilities
- 3 Commission itself, currently.
- 4 Thank you.
- 5 DEPUTY DIRECTOR MATTHEWS: Will, I think
- 6 Peter left, but let me -- what -- Peter's reason
- 7 for saying -- and if Lenny Goldberg was here I
- 8 think he'd be making the same argument Peter made,
- 9 at least I've heard him make it -- the -- I mean,
- 10 I'm sorry. Lenny would be agreeing with you. But
- 11 Peter's argument was well, the purpose of energy
- 12 efficiency Public Goods Charge programs is to save
- energy. Load shifting is just that. Doesn't
- 14 necessarily save energy, just changes the time of
- day that it's used.
- 16 What's your response to that? Are you
- seeing a different goal for the programs?
- 18 MR. NELSON: Okay. I think his analysis
- is very limited, very narrow. I'll give a couple
- of examples. Is there not in fact substantial
- 21 imbedded energy costs, imbedded economic cost to
- building an additional peaking plant? Are there
- not, in fact, economic costs and health costs to
- 24 elevated ozone levels and particulate levels, if
- 25 we have a much -- much more elevated peaking

issue? Are there not economic costs to surging,

- blackouts, brownouts, to increasingly sensitive
- 3 and sophisticated electronic and ship based
- 4 equipment?
- 5 Those are just three. I think there are
- 6 very substantial economic savings, and the energy
- 7 savings, when we look at an imbedded analysis to
- 8 managing the peak problem.
- 9 PRESIDING MEMBER LAURIE: Anybody else
- 10 desire to give thoughts?
- 11 MR. FERGUSON: Thank you, Mr. Chairman.
- 12 Rich Ferguson, from the Sierra Club.
- 13 I'd just like to take a minute to
- 14 clarify one of my comments. In talking to staff
- 15 at lunch time, and listening to the comments, I
- 16 realize that my presentation today was based on my
- 17 reading of AB 1890, which says that these funds
- 18 are intended for cost effective energy efficiency
- 19 and conservation.
- 20 And I think if, you know, to the extent
- 21 that the programs are designed to reduce loads
- 22 cost effectively, those can be accurately
- 23 quantified, and I think the independent non-profit
- 24 model for administering those programs is the
- 25 appropriate one. But you've also heard people who

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want money for education, money for university
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- 2 research, for economic development, a whole other
- 3 host of things that I don't think you can
- 4 quantify, that the load reductions that are going
- 5 to accrue from that -- those programs.
- I do not think that the non-profit model
- 7 is the right model for administering those kinds
- 8 of programs. They're quasi-political in nature,
- 9 and my guess is that they should stay in the
- 10 Commission. So I submit that one of the things
- 11 that you should ponder in this report and make a
- 12 recommendation on is how much of this money is
- going to be used for actual quantifiable cost
- 14 effective load reductions, and how much of it is
- going to be, what shall I call it, softer programs
- designed to research -- what was that, theory
- 17 based market transformation or education or
- 18 community development types of things.
- 19 And you might actually consider two
- 20 different administrative approaches for those two.
- One, as I suggested, a ISO model under the
- oversight board, and another one in the program
- 23 division of the Commission.
- So, thank you.
- 25 DEPUTY DIRECTOR MATTHEWS: I have a

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question. When you said that I was a little
troubled by how you said it, and I interpreted it
particularly at -- and you just said it again, and
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I think I got right.

Commission evolves to.

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5 You said the ISO oversight board is a 6 model that we should look at, and some kind of 7 Energy Commission non-profit in the same kind of a 8 relationship. When you said it the first time it 9 sounded like well, the new -- this non-profit 10 ought to be under the oversight board, which 11 seemed to be a mismatch of function. So it isn't 12 -- it isn't necessarily under the EOB, it's under the Energy Commission, or whatever the Energy 13

15 MR. FERGUSON: I think it could be 16 either. I mean, I would like guidelines, you 17 know, what their mission is, you know, what their budgets are, what kind of auditing and reporting 18 19 is required. Those need to be set up so that the administrator, you know, is running the program in 20 21 a way that everybody can understand, and the 22 results are quantified and audited, and all that.

23 It just -- we already have two like 24 that, and they are overseen by the oversight 25 board, and it makes sense, if you're going to

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         create a third, to have that in the same kind of
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         model. It doesn't have to be. It could be
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         overseen by somebody else. But it should be that
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         mechanical, where you -- where the Commission's
 5
         role -- and I'm sort of assuming that something
 6
         like the initial SB 110 model takes place sometime
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         in the future, whether it does or not. But, I
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         mean, the oversight in that case, when everything
 9
         is quantifiable, is election of board of
         governors, approval of -- of bylaws and operating
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         procedures, and that -- that kind of stuff.
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                   The program design is left to the
         market, and is -- is market driven, with the
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14
         exception that you are going to want to divide it
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         for equity issues between customer classes and
         hard to serve customer groups, as has been
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         mentioned, and things like that. But it should be
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         run pretty much by the book. Whereas the other
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         stuff, you really have to make day-to-day
         decisions about, feedback loops and pilot projects
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         and that kind of thing.
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                   So I think one of the things you may
23
         need to consider is how to split up these two
         ideas that you've been hearing today, and, you
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know, how much money one is worth relative to the

1 other and who should be -- my suggestion is two

- different entities should operate those two
- 3 different programs.
- 4 So, thank you.
- 5 MR. MESSENGER: A quick follow-up.
- 6 That'll teach you to come back.
- 7 (Laughter.)
- 8 MR. MESSENGER: I'm actually intrigued
- 9 by this idea of separation, but I want to ask a
- 10 little bit about it. I heard you say that you
- don't think information programs can be
- 12 quantified, and I guess from my perspective they
- do that all the time in the private sector. They
- 14 call it advertising, and they do quite a bit of
- 15 studies about how effective various kinds of
- information programs are selling product.
- 17 Could you talk a little about whether
- 18 you think there's any problem from separating
- 19 essentially the advertising function from the
- 20 delivery function in an administrative model?
- 21 MR. FERGUSON: You maybe have seen more
- 22 than us. I have not seen any reliable results on
- 23 how much energy, say, not to pick on Chris, but
- the PG&E Energy Center has saved. I mean, there
- 25 may be some. I just don't know what their -- but

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1 to my mind, that's hard to quantify.
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2	My recommendation for people who want to
3	run those education programs would be to partner
4	with the with the service providers in their
5	in their community and to build the cost of the
6	city's involvement, of the local entity's
7	involvement into the subsidies, if you will, that
8	they are bidding for their program, so that when
9	you bid, you know, I want a penny and a half per
LO	fuel that are saved, at whatever, that that
L1	includes, you know, something to get the local
L2	entity to be able to help with, and just to build
L3	those costs in and make them competitive.
L4	But I don't know any other way to do it.
L5	PRESIDING MEMBER LAURIE: Rich,
L6	additional clarification, please.
L7	Did I hear you correctly, did you say
L8	that in the view of yourself or the Sierra Club,
L9	and if it's one or the other let me know, that the
20	design of the program should not be determined
21	based upon public interest, but rather should be
22	market driven, and perhaps you can distinguish
23	between market driven and public interest, and

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maybe not. Is it your belief that guidance

criteria characteristics of a program should not

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1 be developed pursuant to an overall strategic
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- plan, for example.
- 3 MR. FERGUSON: Well, again, I might make
- 4 a separation between actually going out and buying
- 5 megawatts and other activities, like education and
- 6 pilot programs for theory based market
- 7 transformation, and so on. And my initial
- 8 comments didn't deal with those at all.
- 9 But I think, I mean, in terms of just
- 10 going out and acquiring load reductions at the
- 11 lowest possible cost, I do not think that the
- 12 state or theorists at the university should be the
- ones designing those. I think the people that are
- 14 going to go out and do the services and rebuild
- the infrastructure in the state are the ones to do
- 16 that. And excepting for equity considerations,
- 17 and I have a comment there in -- in my written
- 18 comments. There are equity considerations.
- 19 As somebody else mentioned the issue of
- 20 hard to reach customers that have been under-
- 21 served in past programs, and that's a real issue.
- 22 And there are low income programs that need
- 23 special treatment. And, in fact, in addition to
- 24 all the public benefits from these programs, there
- are also private benefits from the people who are

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1 receiving the programs, the money.
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- 2 So there are these equity
- 3 considerations, so that, you know, you aren't
- 4 going to want to dump all the money into, say, the
- 5 industrial commercial sector, even though the kind
- of savings that I was talking about this morning
- 7 in terms of price reductions, it doesn't matter.
- 8 But there are private benefits, and so I think the
- 9 programs do have to be divided up according to
- 10 customer classes and hard to reach customers and
- 11 things like that.
- 12 But other than that, no, I do not think
- 13 the state has a role in -- or any kind of
- theorists have a role in designing those programs.
- 15 I think they should be left to the market, and
- just acquire them as cheaply as possible. You
- 17 want to put this to get megawatts as cheaply as
- 18 you can, and how much do you want to diddle the
- 19 system.
- 20 PRESIDING MEMBER LAURIE: Thank you,
- 21 Rich.
- Yes, ma'am. Ms. Wood.
- MS. WOOD: Yes. Again, I'm Lisa Wood
- 24 from the City of San Diego.
- 25 Since the issue of measurement and

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1 measurable goals came up, I couldn't control
2 myself and had to come up here.
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- I've had a lot of opportunity to work

 with that, because I'm responsible for AB 939

 programs for the City of San Diego. And as you

 know, we have a very measurable goal that

 jurisdictions are required to comply with. So

 it's not really a goal, it's a requirement.
- 9 And there are pros and cons to that -10 PRESIDING MEMBER LAURIE: And AB 939 is
 11 waste reduction, is it not?
- MS. WOOD: AB 939 is the Integrated

 Waste Management Act of 1989, which requires all

 jurisdictions in the state to reduce the amount of

 waste they dispose of by 50 percent by the year

 2000.
- The plus, on the plus side of a

 measurable goal like that is we have extra

 ammunition when we go to council to get funding

 for our programs. You know, you don't do this,

 you get a fine of \$10,000 per day. That's an

 incentive to take part of that pot and put it

 aside for waste reduction programs.
- On the other hand, you were talking, Mr.

 Messenger, about measuring the effectiveness of

1 all your programs. Not all of the programs that

- 2 are necessary are measurable, and some of the
- 3 programs are desirable, politically desirable, but
- 4 not -- don't necessarily result in all that much
- 5 actual measurable diversion. So you get into a
- 6 problem then of how much -- and we have to do
- 7 annual reporting, and we have to do all this
- 8 documentation to the state, and then there's the
- 9 good faith effort issue. How much time do you
- 10 spend documenting things versus actually
- implementing your programs.
- 12 So I think it's very, very important
- that you strike a balance. Yes, there are
- benefits to having measurable goals, to having
- targets, but be careful how much red tape you
- generate in terms of measuring each and every
- thing that you do. That's just based on my
- 18 experience with that particular situation.
- 19 Thanks.
- 20 PRESIDING MEMBER LAURIE: Thank you very
- 21 much.
- MR. SCHILLER: Hi. Steve Schiller,
- 23 again. I just wanted to respond to two of the
- 24 questions, I think, that have been asked by the
- 25 panel, just sort of give a little different

- 1 opinion.
- 2 One of those was the question concerning
- 3 the load management. I feel that doesn't belong
- 4 in the energy efficiency programs, and I think
- 5 that as consideration of that you should look to
- 6 see what the independent system operator is doing.
- 7 They're doing a program where the energy providers
- 8 are bidding into the system to provide load
- 9 management. I think that's where that belongs,
- and not with the energy efficiency programs.
- 11 And also I believe there was a question,
- 12 Mike, that you had asked, about whether in the
- 13 report you should indicate what type of programs
- should be provided. I think that might be nice at
- some point, although I'm concerned, as I think
- 16 Rich Ferguson mentioned, that -- as to who's going
- to define how to do this, whether it's a theory
- 18 based or whether it's the marketplace that defines
- 19 that. I think it would be better for the
- 20 marketplace to define, or to be made.
- 21 But I think it would be very useful if
- you can define is what the clear objective is.
- What we have in 1890, as I mentioned before, is
- spend a certain amount of money. I don't think
- 25 that's a very good goal. If you could take the

time between now and November to define clearly

- what the objective is, you know, how much KWH, how
- 3 much KW, pollution reduction, percent of load
- 4 growth, whatever, I think that would be quite an
- 5 achievement, and then as time proceeds the
- 6 marketplace, or whoever, can define where the
- 7 programs make sense to meet that objective, versus
- 8 defining here are the programs, and therefore
- 9 defining some goals.
- 10 Thank you.
- 11 PRESIDING MEMBER LAURIE: Thank you, Mr.
- 12 Schiller.
- 13 Anybody else? Sir. Mr. Dunn.
- MR. DUNN: Tony Dunn, with the Sierra
- 15 Energy Center.
- I just want to make a comment. I
- 17 believe Mr. Ferguson, of the Sierra Club -- is
- 18 that correct?
- 19 With respect to education, you were
- 20 having a discussion with him, and you referred to
- 21 advertising. And one of the biggest things that
- 22 we do is marketing energy efficiency programs. It
- is impossible to have an energy efficiency program
- 24 without marketing, advertising, education,
- 25 whatever you want to call it. You can have a

1 program on paper, but if nobody participates in it

- because they don't know about it or understand it,
- 3 or understand the benefits, it isn't really a
- 4 program.
- 5 And I think you're going to be forced,
- 6 however you administer this thing, to consider
- 7 education, advertising, marketing, whatever you
- 8 want to call it, as an integral part of it. You
- 9 have to make the program a success, and in order
- 10 to make it a success you have to get the word to
- 11 people, in whatever form. Whether you're working
- through schools, TV ads, newspaper inserts, bill
- inserts, whatever it is, that's a critical
- 14 element.
- 15 So I don't think you can separate out
- that element of the program. It is an integral
- 17 part of it. And I think you'll find that there
- are other things that don't seem to directly pay
- into kilowatt hours saved, that are integral parts
- in order to make the program a success, however
- it's administered.
- Thank you.
- PRESIDING MEMBER LAURIE: Anybody else?
- Mr. Sugar.
- 25 PROGRAM MANAGER SUGAR: Well,

1 fortunately, we have more workshops coming up for

- 2 those of you who had a good time.
- 3 (Laughter.)
- 4 PROGRAM MANAGER SUGAR: Before I go
- 5 further, I would like to thank Don Kazama, who I
- 6 think is up here, and Maxine Botti, who is at the
- 7 back of the room, as well as Wendy Bader.
- 8 Getting set up outside of our normal
- 9 venue is a lot more work than it appears. For
- 10 those of you who've seen "Antiques Road Show",
- 11 with the semi trucks and all, it's not that bad.
- 12 But it does become quite complex, and they've done
- a wonderful job in making this happen. We're
- 14 hoping that the balance of our workshops go a
- 15 little bit more smoothly on the administrative
- 16 end.
- 17 Looking at -- listening to the comments
- today, it sounds like a lot of the work which we
- 19 are going to have to address probably in the next
- 20 workshop will revolve around goals for the
- 21 program. It seems to me, and from talking to some
- of the team leads, that this seems to be the area
- in which a lot of the commentary falls. Staff has
- 24 been involved in quite a few internal sort of
- 25 chicken and egg discussions. What comes first, an

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1 administrative structure or a goal for the
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- program, and an approach to -- to program goals,
- and more and more it appears to us that program
- 4 goals and designs and considerations are going to
- 5 drive many parts of the report, including
- 6 administrative structure.
- 7 So staff will be getting together in the
- 8 next couple of days to work on an agenda for the
- 9 next workshop. It's tentatively scheduled for
- 10 September 9th. We are expecting to be holding
- 11 that workshop -- this is with the Committee,
- 12 Commissioners Laurie and Pernell -- we expect to
- be holding that in our building.
- 14 Is there a question? No?
- We expect to be holding that here.
- Well, good, we have practice.
- 17 (Laughter.)
- 18 PROGRAM MANAGER SUGAR: It appears that
- we will be focusing at least some of that day on
- 20 program design. We'll be getting a more detailed
- 21 agenda out very shortly.
- The following workshop will be October
- 23 12th. That will be focused on additional issues,
- and we're going -- staff is going to be working to
- 25 set that up.

1	Finally, we are expecting a final
2	Committee workshop, with Commissioners present, in
3	November, and that will be a workshop to discuss
4	staff's draft. We anticipate having a draft out
5	by early November. We are trying to find a date
6	when we can corral both Commissioners at once,
7	which becomes complicated because their schedules
8	tend to become filled very quickly, so that we can
9	get comment on the draft. And staff will be
LO	taking direction from the Commissioners to modify
L1	the draft so that we can get it to the full
L2	Commission in very early December.
L3	Given that we need to get a notice out
L4	for the September 9th workshop, we need to have
L5	something out by the end of this week so that
L6	there are at least two weeks for parties to
L7	prepare for the workshop. We need we will be
L8	getting together this week to get together our
L9	comments from this one.

A number of comments were repeated. These included that whatever administrative structure we come up with must be nimble, avoiding long delays. We've heard both privately and in the workshop today that hiatuses in program operation are terribly destructive to the goals of

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energy efficiency, and we need to try to avoid those at any cost.

There are multiple reviews regarding the 3 4 best administrative structure. That's come to us 5 even before this workshop, and listening to the б workshop that's still the case. Many of those 7 issues will probably be resolved, at least in 8 staff's mind, as we go ahead and try to resolve 9 the issues of the goals and form of programs, the overall goal of energy efficiency programs. 10

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Programs should be simple and market driven. We've heard that in a number of forms.

And we continue to hear that there should be multiple measures of success, not just bang for the buck, but that saving kilowatt hours creates a variety of benefits. Many benefits accrue from trying to deal with under-served markets, and it sounds like we need to involve local agencies in our discussions.

20 Are there any that I seem to be missing 21 that have come across?

22 Given that, are there questions about 23 the process? Please.

24 FROM THE AUDIENCE: I have -- I
25 apologize for not having read this whole thing yet

as far as access to people -- material so people

- 2 that are submitting things, how does a party to
- 3 this process get those things. I notice that
- 4 there were things that were passed out to just you
- 5 all that I wouldn't have minded bringing back with
- 6 me. That would've been helpful, I think.
- 7 PROGRAM MANAGER SUGAR: I understand.
- 8 What we're asking is that anything that is
- 9 submitted to us, if it could please be submitted
- 10 electronically. Because this process is truncated
- 11 compared to most of the policy reports in which
- 12 the Energy Commission is involved, we are trying
- to rely very heavily on list server. And we are
- 14 trying to put -- post everything that we receive,
- where it normally would go to Dockets and then
- 16 would be available in written format, we are
- 17 getting the materials to Dockets but we're trying
- 18 to make them available on the list server
- 19 electronically, so that everyone will receive
- 20 them.
- 21 FROM THE AUDIENCE: I just had a
- suggestion, and I'm not sure you can do this.
- 23 Work with the CBEE as the -- people sign up for.
- 24 If I was to submit something to you through the
- 25 process. Everybody gets it. And I wouldn't have

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1 to check on your Website to see if ten minutes,
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- 2 you know, I might have checked and then ten
- 3 minutes later something's posted. You just get it
- 4 instantly, if you sign up with that. It's fairly
- 5 inexpensive, I think.
- 6 PROGRAM MANAGER SUGAR: Well, we have --
- 7 I have to admit ignorance. Could you comment,
- 8 Maxine, how this is working?
- 9 MS. BOTTI: Sure. If you sign up on --
- 10 for the list server on our Website, you'll receive
- 11 the comments we --
- 12 FROM THE AUDIENCE: Automatically?
- MS. BOTTI: -- you just check --
- 14 automatically.
- 15 FROM THE AUDIENCE: Oh, okay.
- MS. BOTTI: So you won't need to keep
- 17 checking that.
- 18 FROM THE AUDIENCE: Okay. And then the
- other comment that I had, procedure comment that I
- 20 had, is although I think today was very
- 21 informative, frankly, people could have written
- all the stuff that they said down, and submitted
- 23 it to you. I mean, it was nice because I could
- just listen rather than read, but I would have
- been done in two hours, frankly.

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1
                   I know you all have -- I -- my
 2
         preference is not to do that -- this again, that
         way. So it would be really nice to do is the
 3
 4
         topics that we're going to go through in the next
 5
         meeting, come prepared for that.
 б
                   PRESIDING MEMBER LAURIE: Let me talk
 7
         about that for a minute.
 8
                   And that is -- that was certainly
 9
         discussed by the staff and the Committee prior to
         today. It is understood that anytime you spend a
10
11
         day sitting at a conference it is an expensive
12
         day. And we understand that. We understand that
         the greater the specificity of the issue and the
13
         greater the specificity of the discussion, the
14
15
         greater the specificity of the answer. And -- and
16
         the better the focus of the discussion. And we
17
         certainly prefer that.
18
                   As noted at the beginning of the
19
         workshop, however, this is a first meeting, and
20
         this is also a meeting designed for the full
21
         public, not even those necessarily who have an
22
         economic stake or another stake in the process.
23
         That's -- this workshop was specifically designed
         to be general. It is our intent that every
24
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workshop that follows -- and, again, we understand

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that your time is valuable and we don't do this
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- for fun, contrary to Mr. Sugar's view --
- 3 (Laughter.)
- 4 PRESIDING MEMBER LAURIE: -- we will
- 5 have specific topics, we will have specific papers
- for discussion purposes.
- 7 Other questions regarding process?
- 8 MS. TEN HOPE: I just have one comment
- 9 that there's another forum that might be of
- 10 interest to people in the audience. The existing
- administrators are going to come and speak with
- 12 the Commissioners and fill them in on some of the
- 13 progress to date in programs to date. I believe
- that's been scheduled for September 8th; is that
- 15 right, John?
- 16 Okay. So that'll be at our business
- meeting, if you're interested in hearing status to
- 18 date.
- 19 PRESIDING MEMBER LAURIE: And that is a
- 20 regularly agendized item on our business meeting,
- 21 is it not?
- 22 Commissioner Pernell, do you have any
- 23 closing comments, sir?
- 24 COMMISSIONER PERNELL: Yes. Thank you.
- 25 Closing comments. I love this.

1	(Laughter.)

- 2 COMMISSIONER PERNELL: Let me just say
- 3 that it's been a long day. And again, I want to
- 4 thank you for attending. At the beginning I said,
- 5 you know, don't take anything for granted, let us
- 6 know, and I think you've done that.
- 7 We want you to participate in the
- 8 process. We'll lay the process out, we want it to
- 9 be user friendly. We'll have things up on the
- 10 Website. And I agree with your comment that it's
- 11 better to have it in writing, and then staff can
- 12 see it and we can kind of go over it a little bit.
- 13 I know I was -- everybody up here was taking notes
- 14 at some point. But it's also better to have your
- thoughts down in writing, and if you could do that
- 16 electronically that would help us.
- 17 Again, I want to thank you, and look
- 18 forward to seeing you on the 9th. Thank you
- 19 again.
- 20 PRESIDING MEMBER LAURIE: Thank you,
- 21 Robert.
- 22 Ladies and gentlemen, that concludes the
- 23 meeting.
- We understand the importance of the
- legislative mandate. This program is a big deal.

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1 The subject is important, and there is a lot of
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- 2 money involved. Our efforts over the next couple
- 3 of months will be intense. We have 90 days to
- 4 write the report. That is not a lot of time.
- 5 It's basically a full-time post for the teams that
- 6 are working on it.
- 7 Again, your input is critical, so if you
- 8 cannot attend a workshop please provide material
- 9 in some other fashion.
- 10 Any other comment by staff present? Mr.
- 11 Sugar.
- 12 PROGRAM MANAGER SUGAR: One comment I
- 13 should have made. Staff is discussing having a
- 14 possible couple of staff workshops on specific
- 15 technical issues. We do not yet have dates for
- 16 those. We were waiting to hear what comments --
- 17 some of the comments made today. If staff decides
- to hold those, we will notify the list server
- immediately to give people as much time as
- 20 possible to plan to attend, if they are
- 21 interested.
- 22 PRESIDING MEMBER LAURIE: Thank you very
- 23 much. The meeting is adjourned.
- 24 (Thereupon, the Public Benefits Program
- Workshop was concluded at 3:30 p.m.)

CERTIFICATE OF REPORTER

I, VALORIE PHILLIPS, an Electronic

Reporter, do hereby certify that I am a

disinterested person herein; that I recorded the

foregoing California Energy Commission Workshop;

that it was thereafter transcribed into

typewriting.

I further certify that I am not of counsel or attorney for any of the parties to said Workshop, nor in any way interested in the outcome of said Workshop.

IN WITNESS WHEREOF, I have hereunto set my hand this 26th day of August, 1999.

Valorie Phillips

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